

above ground storage tank
air quality
asbestos/lead-based paint
baseline environmental assessment
brownfield redevelopment
building/infrastructure restoration
caisson/piles
coatings
concrete
construction materials services
corrosion
dewatering
drilling
due care analysis
earth retention system
environmental compliance
environmental site assessment
facility asset management
failure analyses
forensic engineering
foundation engineering
geodynamic/vibration
geophysical survey
geosynthetic
greyfield redevelopment
ground modification
hydrogeologic evaluation
industrial hygiene
indoor air quality/mold
instrumentation
masonry/stone
metals
nondestructive testing
pavement evaluation/design
property condition assessment
regulatory compliance
remediation
risk assessment
roof system management
sealants/waterproofing
settlement analysis
slope stability
storm water management
structural steel/welding
underground storage tank

REPORT OF PHASE II ENVIRONMENTAL SITE ASSESSMENT

**FORMER CABOT CORP
SOUTH WASHINGTON STREET
KOKOMO, INDIANA**

**SME Project Number 067021.00.003.006
September 11, 2014**

Prepared for:

**City of Kokomo Coalition
City Hall
100 South Union Street
Kokomo, Indiana 46901**



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September 11, 2014

Mr. Paul Allor
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City Hall
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RE: Phase II Environmental Site Assessment Report
Former Cabot Corp
South Washington Street
Kokomo, Indiana
SME Project No.: 067021.00.003.006

Dear Mr. Allor:

Soil and Materials Engineers, Inc. (SME) has completed a Phase II Environmental Site Assessment (ESA) of the above referenced property, hereinafter referred to as the Property. The enclosed Phase II ESA report presents SME's interpretation of site conditions at the time the Phase II ESA was completed based on field observations and laboratory supplied data.

The Phase II ESA was requested to assess recorded and readily observable recognized environmental conditions associated with the Property. SME understands that the Kokomo Coalition will rely upon the professional opinions and representations contained in the report in accordance with the terms and conditions agreed upon for the project. This reliance is not to be construed as a warranty or guarantee on the part of SME.

Thank you for the opportunity to provide these services. If you have any questions concerning this report, or if additional services are required, please call.

Very truly yours,

SOIL AND MATERIALS ENGINEERS, INC.

Laura Welsh
Staff Geologist

Keith Egan, CP#259
Senior Project Consultant

Distribution: City of Kokomo: One hard copy, One CD



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TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
1.1 Site Description and Background	1
1.2 Purpose	1
2.0 SCOPE OF ASSESSMENT	3
3.0 PROCEDURES	4
3.1 Soil Boring Soil Sampling.....	4
3.2 Test Pit Soil Sampling.....	4
3.3 Soil Boring Groundwater Sampling	5
3.4 Soil Sampling Quality Assurance and Quality Control (QA/QC)	5
3.5 Chemical Analyses	6
3.6 Geophysical Methodology	6
4.0 RESULTS	8
4.1 Surface and Subsurface Conditions.....	8
4.2 Results of Chemical Analyses	9
4.2.1 Soil Sample Analysis	9
4.2.2 Groundwater Sample Analyses.....	9
4.3 Data Verification/Validation and Usability.....	10
4.3.1 Field QA/QC.....	10
4.3.2 Laboratory QA/QC	11
4.3.3 Project Objectives and Data Usability	12
5.0 CONCLUSIONS AND RECOMMENDATIONS	13

FIGURES: Figure 1 – USGS 7.5 Minute Topographic Map
Figure 2 – Soil Boring Location Diagram

TABLES: Table 1 – Soil Analytical Results
 Table 2 – Groundwater Analytical Results

APPENDIX A:	Sampling and Analysis Plan
APPENDIX B:	Geophysical Survey Results
APPENDIX C:	Soil Boring Logs
APPENDIX D:	Laboratory Data Reports

1.0 INTRODUCTION

Soil and Materials Engineers, Inc. (SME) prepared this report to present the results of a Phase II Environmental Site Assessment (ESA) of the former Cabot Corp property located on South Washington Street in Kokomo, Howard County, Indiana, the “Property”. The Property location is shown on Figure 1. The assessment activities were funded by the Kokomo Coalition’s United States Environmental Protection Agency (USEPA) Brownfields Assessment Grant for hazardous substances. SME conducted the assessment in general accordance with SME’s Sampling and Analysis Plan (SAP), dated February 12, 2014, and Quality Assurance Project Plan (QAPP), approved March 27, 2013.

1.1 Site Description and Background

At the time of the Phase II activities, the Property consisted of a vacant 3.43-acre parcel of land on the south side of downtown Kokomo, Indiana. The Property had been a quarry at one time and was then used to bury industrial waste. The Property was located in a mixed use residential/commercial area. We performed a Phase I Environmental Site Assessment (Phase I) for the Property in August 2013. The Phase I identified the following recognized environmental conditions (RECs) in connection with the Property:

- The known former presence of drums of hazardous associated with the dumping activities conducted by a former owner.
- The potential for environmental impact associated with placement of fill materials from an unknown source onto the former onsite quarry.
- The potential for environmental impact from the unreported and/or undetected migration of hazardous substances and/or petroleum products associated with the historical off-site operations, including storage of coal and lumber, gasoline station activities, power and heating plant activities, and railroad activities.

1.2 Purpose

We designed the scope of this assessment to screen for environmental impact from on-and off-site RECs and evaluate current site environmental conditions for the purpose of supporting environmental due diligence for the potential re-use of soils on the Property and for the potential redevelopment of the Property. The City of Kokomo intends to utilize the top fourteen feet of material at the Property as clean hard fill in several locations throughout Kokomo.

We prepared this report to document the encountered subsurface conditions, soil sampling procedures, results of soil and groundwater chemical analysis, and our conclusions and recommendations.

2.0 SCOPE OF ASSESSMENT

A geophysical survey of the Property was performed prior to advancing soil borings. The intent of this survey was to identify the boundaries of the former quarry and the presence of buried drums or other fill material. The information would be used to adjust our sample locations to these locations. Results of the geophysical survey are discussed in Section 4.1 and provided in Appendix B.

We advanced eight soil borings (SB1 through SB8) and excavated ten test pit excavations (TP1 through TP10) to screen for environmental impact from on-and off-site RECs. The sampling locations are shown on Figure 2 while the rationale for each sample location is provided in the SAP (Appendix A). The borings were advanced to a maximum depth of 32 feet below ground surface (bgs). The test pit excavations were advanced to a maximum depth of 16 feet bgs. Soil samples were collected for visual classification, field screening for evidence of contamination, and/or chemical analyses. In accordance with the SAP, soil samples were collected from each test pit and soil boring from the most appropriate interval to assess the highest expected levels of contaminated soil. Where no evidence of impact was observed, the eight to ten foot bgs interval was submitted for analysis.

Temporary groundwater wells were installed in boring locations SB1 and SB2. One groundwater sample was collected from each temporary well location. Summaries of the soil and groundwater samples collected and analyzed for this assessment are presented in Tables 1 and 2 respectively.

The soil samples were submitted for laboratory analyses of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and the metals arsenic, barium, cadmium, chromium (trivalent and hexavalent), lead, mercury, selenium, and silver, and/or ethylene dibromide (EDB). These analytical parameters were selected because these chemicals are associated with the former drums of hazardous materials buried on-site, the fill materials from an unknown source, and the off-site storage of lumber, off-site power and heating plant activities, and off-site railroad activities (VOCs, PAHs, PCBs, metals) and the off-site underground storage tanks (VOCs, PAHs, lead, and the lead scavengers).

SME implemented the SAP (Appendix A) with the following exceptions:

- Groundwater was not encountered in SB3 through SB8; therefore the proposed monitoring wells were not installed and no groundwater samples were collected from these borings.
- Soil borings SB6, SB7, and SB8 were extended beyond the proposed 25 feet bgs to a maximum depth of 32 feet bgs in an attempt to encounter groundwater.

3.0 PROCEDURES

Procedures for the boring and test pit installation and sampling activities and chemical analyses are summarized in the following subsections. We completed the soil borings and test pits and collected soil and groundwater samples at the Property on May 28 and 29 and June 2, 2014.

3.1 Soil Boring Soil Sampling

The borings SB1 through SB8 were advanced using hydraulically driven, direct-push equipment with clean, disposable four-foot vinyl acetate liners. The soil in each four-foot interval was visually evaluated and representative samples were collected from each soil unit for visual classification. We visually classified the soil samples from the soil borings in general accordance with the Unified Soil Classification System (USCS).

A portion of each soil sample was used for field screening of ionizable VOCs using a calibrated photoionization detector (PID) equipped with a 10.6 eV lamp. Field screening consisted of placing a portion of the sample in a sealed plastic bag and allowing the sample to warm and release ionizable VOCs. The tip of the PID was inserted in the headspace of the bag, and PID readings were recorded on our field activity report.

The amount of soil collected at each sampling location was dependent on chemical analyses requirements. First, soil samples intended for VOC laboratory analyses were removed from the boring liner and were placed in methanol-preserved, non-preserved, and deionized water-preserved 40-milliliter (mL) glass vials following U.S. Environmental Protection Agency (USEPA) Method 5035A. Soil volumes sufficient for analyses of additional parameters were then removed from the boring liner and homogenized, when possible, prior to transfer to pre-cleaned, four-ounce glass jars provided by the analytical laboratory.

We placed residual soil cuttings generated from the soil borings back into the boreholes at each location. The remainder of the borehole was filled with hydrated bentonite chips to the ground surface.

3.2 Test Pit Soil Sampling

The test pits TP1 through TP8 were excavated using an excavator. Soil samples were collected from each two foot interval from the excavator bucket using a stainless steel trowel. The soil in each two-foot interval was visually evaluated and representative samples were collected from each soil unit for visual classification. We visually classified the soil samples in general accordance with the USCS. A portion of each soil samples was used for field screening

of ionizable VOCs using a calibrated PID equipped with a 10.6 eV lamp. Field screening consisted of placing a portion of the sample in a sealed plastic bag and allowing the sample to warm and release ionizable VOCs. The tip of the PID was inserted in the headspace of the bag, and PID readings were recorded on our field activity report.

The amount of soil collected at each sampling location was dependent on chemical analyses requirements. First, soil samples intended for VOC laboratory analyses were removed from the excavator bucket and were placed in methanol-preserved, non-preserved, and deionized water-preserved 40-milliliter (mL) glass vials following U.S. Environmental Protection Agency (U.S. EPA) Method 5035A. Soil volumes sufficient for analyses of additional parameters were then removed from the excavator bucket and homogenized, when possible, prior to transfer to pre-cleaned, four-ounce glass jars provided by the analytical laboratory.

We placed residual soil cuttings generated from the test pits back into the excavations at each location and compacted the soil using the excavator bucket.

3.3 Soil Boring Groundwater Sampling

We installed temporary groundwater monitoring wells at SB1 and SB2 when groundwater was encountered during drilling at depths ranging from 11 to 21 feet below ground surface (bgs). Both of the temporary groundwater monitoring wells were constructed of a pre-packed 5-foot long, ¾-inch diameter, 0.010-inch slotted PVC screen attached to ¾-inch diameter PVC riser. Each well was installed such that the screen intersected the water table.

After gauging the water and total well depths, we purged the wells using a ¼ inch OD polyethylene disposable bailer. After well purging, we collected groundwater samples for analyses of VOCs, PAHs and/or metals from the temporary groundwater monitoring well using the bailer. The groundwater samples intended for laboratory analyses were transferred directly into one or more of the following laboratory-supplied containers: 40-mL glass vials preserved with hydrochloric acid (VOC analyses); 250-mL plastic bottles preserved with nitric acid (metals analyses); 250-mL plastic bottles preserved with sodium hydroxide (hexavalent chromium analysis); and/or 125-mL, unpreserved amber glass bottles (PAH analyses). After sampling, the purge water was placed back into the wells, the wells were removed, and we filled the borings to the ground surface with soil cuttings and hydrated bentonite.

3.4 Soil Sampling Quality Assurance and Quality Control (QA/QC)

In order to minimize cross-contamination, a new pair of disposable nitrile sampling gloves was used for collection of each sample. We collected field duplicate soil and groundwater samples to evaluate the precision of sampling activities.

Field instrument calibration, sample handling and custody requirements, and laboratory analytical methods, analysis reporting limits (RLs), QA/QC procedures, and reporting protocols were consistent with those described in the project QAPP.

3.5 Chemical Analyses

We submitted 19 soil, two groundwater, and three QA/QC samples for chemical analysis of one or more of the parameters: VOCs, PAHs, PCBs, EDB, and/or the metals arsenic, barium, cadmium, chromium (III and VI), lead, mercury, selenium, and silver. The samples were submitted to Pace Analytical Services (PACE) of Indianapolis, Indiana who analyzed the samples using the reference methods listed below:

- VOCs – USEPA Method 8260 (soil and groundwater);
- PAHs – USEPA Method 8270 by SIM (soil) and 8270 by SIM LVE (groundwater);
- Metals – USEPA Methods 6010 (soil and groundwater), 7471 (soil), 7196A(soil), 7470 (groundwater), and 7196 (groundwater);
- PCBs – USEPA Method 8082 (soil); and
- EDB – USEPA Method 8011 (groundwater)

3.6 Geophysical Methodology

Electromagnetic metal detection (EMD) was selected as the primary method of investigation for this project as it is ideally suited to mapping the location of subsurface metal objects such as possible USTs and related piping, utilities, and buried reinforced concrete structures. The EMD data was collected with an EM61-MKII metal detector manufactured by Geonics Ltd. The EM61-MKII is a high-sensitivity, high-resolution, time domain metal detector. It consists of two vertically separated 1 meter by 0.5-meter coaxial coils mounted to a wheel assembly. The instrument operator pulls the coil assembly along the line of profile while data is collected nearly continuously (one reading every approximately 1.1 feet). The EM61-MKII is designed to take readings from the bottom coil (designated as channel three) and simultaneously take additional readings from the top coil. The top and bottom coil readings are then subtracted to selectively filter out the effect from shallow metal objects (designated as the channel difference calculation). The channel three reading is considered to be a measure of all metal, both shallow and deep, within the detection zone of the instrument, while the channel difference

calculation is a measure of predominantly deeper metal only. Surface metal objects (such as reinforced concrete) cause such a high instrument response that their effect cannot be completely removed.

Electromagnetic conductivity mapping (ECM) was selected to attempt to map the boundaries of the former quarry by distinguishing between natural (undisturbed) and fill (disturbed) materials. The ECM data was collected with an EM31 electromagnetic conductivity meter manufactured by Geonics Ltd. The EM31 induces electrical current flow in the subsurface by generating an electromagnetic field using a transmitter coil; a receiver coil at the other end of the instrument is used to measure the subsurface current flow. The instrument then converts the transmitter output and receiver input values into apparent conductivity and in-phase measurements. Since the EM31 instrument does not require direct ground contact, data collection rates are relatively fast. This makes EM31 conductivity mapping well-suited to rapid scanning of very large areas, though it affords limited information on the vertical distribution of anomalous areas.

4.0 RESULTS

The surface and subsurface conditions encountered during soil boring and test pit activities and the results of chemical analyses are described in the following subsections.

4.1 Surface and Subsurface Conditions

The soil was visually classified in general accordance with the USCS. Detailed information regarding the soil conditions encountered at each boring is documented in soil boring logs in Appendix C. The surface and subsurface conditions encountered are summarized below.

The soils encountered at the Property consisted primarily of two types of fill materials: a lean clay with trace amounts of gravel, and a fine to coarse sand with large amounts of brick, concrete, gravel, and metal. The sand fill was black and appeared to be foundry sand. The foundry sand was observed from the ground surface to the boring/test pit terminations ranging from 14 feet below ground surface (bgs) to 25 feet bgs in SB1, TP1, and TP2. A non-native clay layer (fill) was noted from one to four feet bgs in TP2. The lean clay fill was observed in the remaining borings/test pits from the ground surface to depths ranging from 7 to 25 feet bgs. A sandy lean clay fill was noted from 12 to 14 feet bgs in TP8. In soil borings/test pits SB2 through SB4 and Sb6 through SB8 the lean clay fill was underlain by the foundry sand fill beginning at depths ranging from 7 to 30 feet bgs to the boring terminations at 16 to 32 feet bgs.

Elevated PID readings (greater than five parts per million) were observed in SB3, TP1 and TP2. Black staining was observed in all of the borings and test pits where foundry sand was encountered. No odors were noted.

Groundwater was encountered during drilling at depths ranging from 11 to 21 feet bgs at SB1 and SB2. Groundwater was not noted in any of the other borings, therefore no temporary wells were installed. No groundwater was noted in any of the test pits. The saturated zone consisted of fill: fine to coarse sand with large amounts of brick, concrete, gravel, and metal. The sand fill was black and appeared to be foundry sand. No odors were noted and no sheen was observed on the groundwater samples collected.

Geophysical survey results showed two storm water inlet grates in the investigation area. The results also showed an area of metallic anomalies in the northwest corner of the Property and two faint metallic anomalies near the center of the Property on the eastern side and near the northeastern corner. In accordance with the SAP, several test pit locations were adjusted to investigate the metallic anomalies. Results of the geophysical survey are provided in Appendix B.

4.2 Results of Chemical Analyses

Results of chemical analyses performed on soil and groundwater samples collected by us are summarized in the following paragraphs and tabulated in Tables 1 and 2, respectively. Results of soil chemical analyses were compared to the 2014 Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential, Commercial/Industrial, and Excavation Direct Contact Screening Levels and Soil Migration to Groundwater Screening Levels. Results of groundwater chemical analyses were compared to IDEM RCG Residential Tap, Residential Vapor Intrusion, and Commercial/Industrial Vapor Intrusion Screening Levels. Laboratory analysis reports are included in Appendix D.

4.2.1 Soil Sample Analysis

The laboratory analyses results showed concentrations of 13 VOCs; 17 PAHs; and the metals barium, cadmium, trivalent chromium, lead, selenium, and silver measured in multiple soil samples at concentrations above laboratory reporting limits; however, the concentrations were below the IDEM RCG Residential, Commercial, and Excavation Direct Contact Screening Levels and Soil Migration to Groundwater Screening Levels.

The PAH naphthalene, the PCBs aroclors 1248 and 1254, arsenic and/or mercury were detected in multiple soil samples and/or the duplicate sample at concentrations which exceeded their respective Soil Migration to Groundwater Screening Levels. Concentrations of aroclor 1254 and arsenic exceeded their respective Residential Direct Contact and Soil Migration to Groundwater Screening Levels. Concentrations of aroclor 1248 exceeded the Residential and Commercial/Industrial Direct Contact and Soil Migration to Groundwater Screening Levels. Concentrations of mercury exceeded its Residential, Commercial/Industrial, and Excavation Direct Contact and Soil Migration to Groundwater Screening Levels at one location. No other analytes were detected in soil at concentrations above their respective laboratory reporting limits in the soil samples.

4.2.2 Groundwater Sample Analyses

Concentrations of the VOCs 1,2,4-trichlorobenzene, hexachloro-1,3-butadiene, toluene, tetrachloroethene, cis-1,2-dichloroethene, and ethylene dibromide; the PAH naphthalene, and the metals barium and trivalent chromium detected at SB1, SB2, and/or the duplicate from SB1 were below their respective IDEM RCG Residential Tap, Residential Vapor, and/or Commercial Vapor Screening Levels. The VOC, vinyl chloride, was detected at concentrations which exceeded its Residential Tap and Residential Vapor Exposure Screening Levels in the duplicate

from SB1 and lead was detected at a concentration which exceeded its Residential Tap Screening Level at SB2. No other target analytes were detected above laboratory reporting limits in the samples.

4.3 Data Verification/Validation and Usability

We evaluated the representativeness of the data collected during this Phase II ESA to determine if the data set was valid and of usable quality. Except as described below, results of the quality control samples indicated that sample reproducibility and sampling and laboratory analysis functions were within acceptable limits. The laboratory QA/QC results are detailed in the Case Narrative included in Appendix D.

4.3.1 Field QA/QC

Concentrations of the PAHs 1-methylnaphthalene, 2-methylnaphthalene, and phenanthrene; and the metals arsenic, barium, trivalent chromium, and lead were detected in the soil sample from TP10 and/or the duplicate sample from TP10 (DUP01). The relative percent differences (RPDs) of each of the detected chemicals were within the project QC limits of +/- 50%.

Concentrations of the VOCs 1,2,4-trichlorobenzene, hexachloro-1,3-butadiene, toluene, tetrachloroethene, vinyl chloride, and cis-1,2-dichloroethene; the PAH naphthalene, and lead were detected in the groundwater sample from SB1 and/or the duplicate sample from SB1 (DUP01). With the exception of cis-1,2-dichloroethene, the relative percent differences (RPDs) of each of the detected chemicals were within the project QC limits of +/- 35%. The detected concentrations of cis-1,2-dichloroethene were significantly below the applicable IDEM RCG Screening Levels in all of the samples analyzed; therefore the lower precision indicated by this measurement did not affect the project objective of conservatively identifying compounds above the IDEM RCG Screening Levels. Tetrachloroethene was detected in the trip blank below the IDEM RCG Screening Level. The laboratory indicated that the tetrachloroethene was carryover from a sample contaminated with high levels that analyte. In addition, tetrachloroethene was not detected in any of the other groundwater samples analyzed; therefore the lower precision indicated by this measurement did not impair the project objective of conservatively identifying compounds above the IDEM RCG Screening Levels.

4.3.2 Laboratory QA/QC

Pace reported that the analyte recovery for trans-1,2-dichloroethene and vinyl chloride in the laboratory control sample (LCS) exceeded QC limits, but that the analyte presences were below reporting limits in the associated samples. Pace also reported that the results were unaffected by the high bias; therefore the lower precision indicated by this measurement did not impact our objective of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the RPD value was outside laboratory control limits in the matrix spike/matrix spike duplicate for 1,2,3-trichlorobenzene and n-hexane. Neither of these chemicals was detected in any of the soil samples analyzed; therefore the lower precision indicated by this measurement did not impact our objective of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the PCB results for the sample analyzed from TP1 may be biased high due to the presence of another co-eluting aroclor. The high bias did not impact our objective of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels. In the same sample, Pace reported that surrogate recovery was not evaluated against control limits due to sample dilution. The chemicals detected were significantly above the lowest applicable screening level; therefore c

Pace reported that the matrix spike and/or matrix spike duplicate recovery was outside of laboratory control limits for barium and lead in the sample associated with TP1. Both barium and lead were detected in the sample from TP1 at concentrations significantly less than the lowest applicable screening level; therefore impact our objective of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the chromium matrix spike recovery was outside of laboratory control limits in the sample associated with the sample from TP1 due to a parent sample concentration notably higher than the spike level. The concentration of chromium detected in the sample from TP1 was significantly below the lowest applicable screening level; therefore the lower precision indicated by this measurement did not impact our objective of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the analyte recovery for 1,2,4-trichlorobenzene in the LCS was outside QC limits. 1,2,4-trichlorobenzene was not detected in any of the soil samples analyzed; therefore the lower precision indicated by this measurement did not impact our objective of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the detected concentrations of aroclor 1248 and aroclor 1254 in the samples from SB1, SB2, SB3, and SB4 may be biased high due to the presence of another co-eluting aroclor. The high bias did not impact the project objectives of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the surrogate recovery for tetrachloro-m-xylene (a PCB surrogate) was not evaluated against control limits for samples from SB1, SB2, SB3, SB4 and SB5 due to sample dilution. Pace reported a high bias for aroclor 1248 and aroclor 1254 detected in these samples (see above); therefore the high bias indicated by this measurement did not impact the project objectives of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that samples SB2 and SB5 were diluted for the PCB analysis due to the presence of high levels of non-target analytes or other matrix interference. The increased method detection limit and reporting limit in these samples was below the lowest applicable screening level; therefore the increased detection and reporting limits indicated by this measurement did not impact the project objectives of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the PAH sample extract in SB1 could not be concentrated to the routine final volume, which resulted in elevated reporting limits. The elevated reporting limits were all below the lowest applicable screening level; therefore the elevated reporting limits indicated by this measurement did not impact the project objectives of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the PAH analyses in SB1, SB3, and SB4 were performed after dilution due to the extract's physical characteristics. The elevated reporting limits were all below the lowest applicable screening level; therefore the elevated reporting limit indicated by this measurement did not impact the project objectives of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

Pace reported that the recovery of a VOC surrogate in SB7 exceeded laboratory control limits; but that the analyte presence was below reporting limits in associated samples; therefore the lower accuracy indicated by this measurement did not impact the project objectives of conservatively identifying compounds at concentrations higher than the IDEM RCG Screening Levels.

4.3.3 Project Objectives and Data Usability

The data set generated is of usable quality and meets the Property-specific objectives.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the Phase II assessment demonstrated that the RECs identified in the Phase I ESA have led to limited soil and groundwater impact at the Property. Concentrations of naphthalene, PCBs aroclor 1248 and 1254, arsenic, and mercury in multiple locations exceeded the Soil Migration to Groundwater Screening Level. Out of these chemicals, only naphthalene was detected in the groundwater samples. This indicates that the methods used to develop these Screening Levels are probably not representative of Property conditions and that the representative concentrations of PCBs aroclor 1248 and 1254, arsenic, and mercury in soil may not migrate to groundwater. Potable water at the Property is supplied by Indiana American Water, which effectively eliminated the groundwater direct contact pathway, making the soil migration to groundwater irrelevant. An Environmental Restrictive Covenant (ERC) should be prepared and recorded with the deed restricting the use of groundwater at the Property.

With the exception of mercury and PCB aroclor 1248, the chemicals detected in soil do not exceed the IDEM RCG Commercial/Industrial or Excavation Direct Contact Screening Levels (DCSLs). Concentrations of arsenic were detected above the Residential DCSL at multiple locations across the Property. Concentrations of PCB aroclor 1248 and 1254 were detected in multiple soil samples in exceedance of their respective Residential DCSLs. Aroclor 1254 was also detected at concentrations in exceedance of its Commercial/Industrial DCSL. The City of Kokomo was seeking to utilize soils at the Property as fill materials at various sites in Kokomo. Based on the potential human health risk from detected concentrations of arsenic, mercury, and the PCB aroclors 1248 and 1252, SME recommends not using or moving the soils off-Property.

IDEQ considers it generally unlikely that soils deeper than 15 feet below ground surface will be brought to the surface in the future, and in most cases it is not necessary to evaluate soils deeper than 15 feet for soil direct contact risk. The PCB contamination was noted only in samples collected from the foundry sand fill materials. The foundry sand fill materials found within 15 feet of the surface, primarily on the northern portion of the Property, may pose a human health risk via direct contact. An ERC should be prepared and recorded with the deed to protect visitors to the Property and future receptors. The ERC would restrict the disturbance of the foundry sand fill materials utilizing an engineering control such as fencing or capping (i.e. a paved parking lot) where the PCB impacted foundry sand fill materials are found within 15 feet of the ground surface, to eliminate the direct contact pathway. In addition, the ERC should restrict the use of the Property to Commercial/Industrial to eliminate the Residential Direct Contact Pathway.

SME recommends that an ERC to protect visitors to the Property and future receptors be recorded. The ERC would restrict the disturbance of the foundry sand fill materials utilizing an engineering control such as fencing or capping (i.e. a paved parking lot) where the PCB impacted foundry sand fill materials are found within 15 feet of the ground surface, to eliminate the direct contact pathway. In addition, the ERC should restrict the use of the Property to Commercial/Industrial to eliminate the Residential Direct Contact Pathway as well as restrict the use of groundwater.

The conclusions in this report are based on visual observations and chemical results from samples collected from the area of investigation only. Should additional surface, subsurface, or chemical data become available after the date of issue of this report, the conclusions contained in this report may require modification after SME has reviewed the additional information. This review by SME of additional information would be conducted upon receipt of a request from the client.

In the process of obtaining information in preparation of this report, procedures were followed that represent reasonable practices and principles in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions.

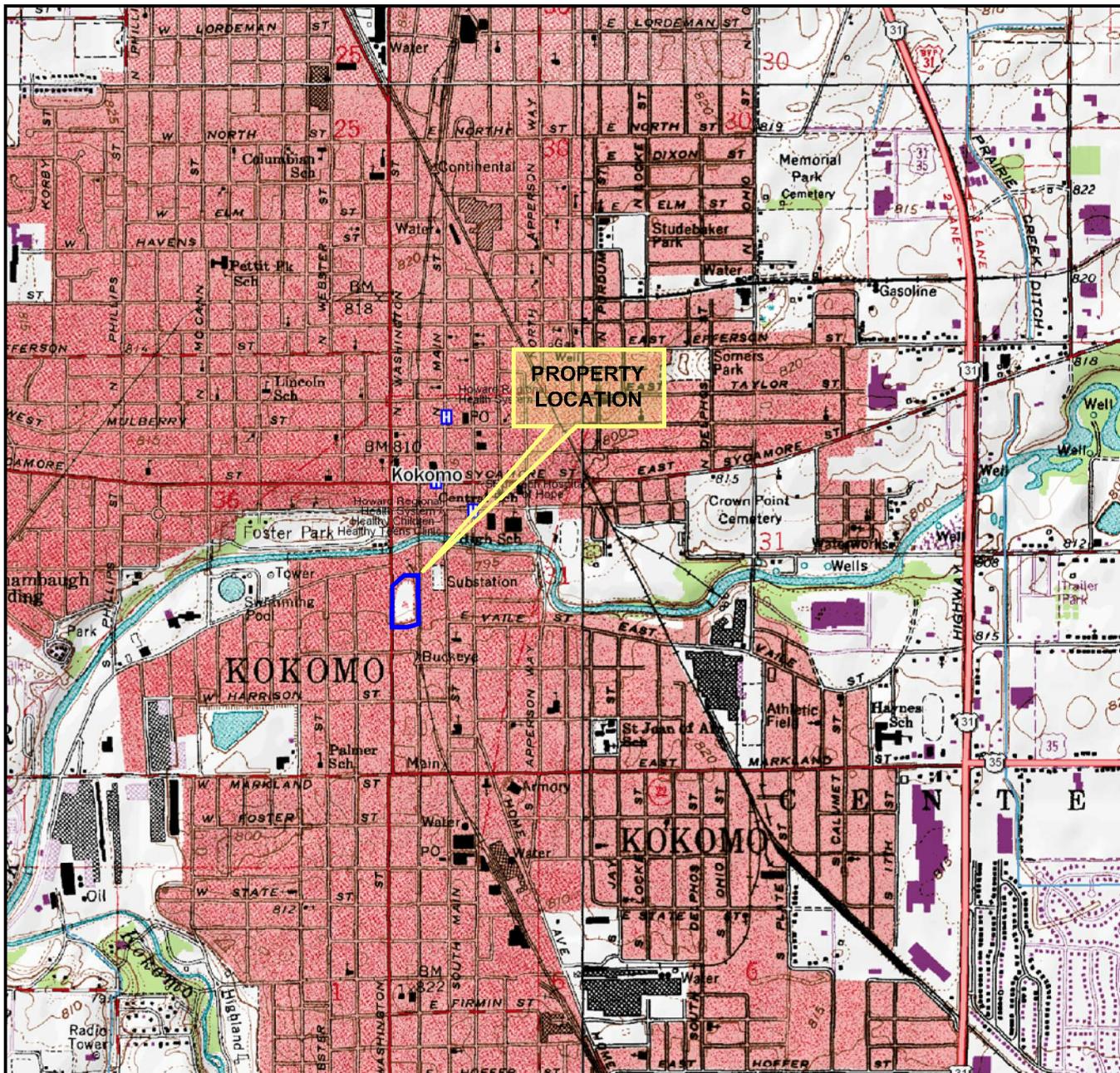
Report prepared by: Laura Welsh, Staff Geologist

Report reviewed by: Keith Egan, Ohio CP#259

FIGURES

FIGURE 1 – USGS 7.5 MINUTE TOPOGRAPHIC MAP

FIGURE 2 – SOIL BORING LOCATION DIAGRAM



Base map obtained from © DeLorme Topo North America™ 10.

LEGEND



**APPROXIMATE
PROPERTY LOCATION**

0' 2000'

SCALE: 1" = 2000'

USGS QUADRANGLE(s) REFERENCED

KOKOMO WEST (IN) TOPO QUAD - 1995
KOKOMO EAST (IN) TOPO QUAD - 1994



Feb 10, 2014 - 9:55am - iblake

\\$mefile\work in progress\067021.00\CAD\067021.00.003.006\DWGS\rev1\067021.00.003.006-01.dwg



Indiana Michigan Ohio

Date	2-10-14
Drawn By	GM
Scale	1" = 2000'
Project	067021.00.003.006

**USGS 7.5 MINUTE TOPOGRAPHIC MAP
CABOT CORPORATION PROPERTY
SOUTH WASHINGTON STREET
KOKOMO, INDIANA**

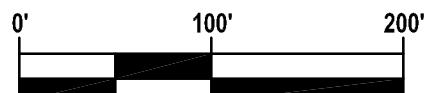
Figure No. 1



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOIL BORING LOCATION
- SOIL BORING LOCATION WITH TEMPORARY WELL
- TEST PIT LOCATION

NOTE:
DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO,
PROPERTY RECONNAISSANCE AND HOWARD COUNTY,
INDIANA GIS SITE.



GRAPHIC SCALE: 1" = 100'

Jul 11, 2014 - 9:25am - jblake

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No.	Revision Date

TABLES

TABLE 1 – SOIL ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ANALYTICAL RESULTS

TABLE 1
SOIL ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Analyte	CAS Number	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹			Soil Migration to Groundwater	Sample Location	CHEMICAL ANALYSES RESULTS (mg/kg)								
		Direct Contact Residential	Direct Contact Commercial / Industrial	Direct Contact Excavation			SB1	SB3	SB5	SB6	SB7	SB2	SB2	SB4	SB8
		Sample Depth (ft. below grade)	(8-10)	(21-23)	(8-10)	(8-10)	(8-10)	(5-7)	(8-10)	(23-25)	(8-10)				
		Date Collected	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	
Recognized Environmental Conditions			Former drums of hazardous material and placement of fill from an unknown source (SB1 also off-site historical filling station)								Former drums, fill from an unknown source, and off-site railroad operations, power and heating plant operations				
VOCs															
1,1-Dichloroethane	75-34-3	46	170	1,700	0.14		0.0028	0.0049	<0.0040	<0.0042	<0.0038	<0.0040	0.0035	0.0027	<0.0037
1,2,4-Trimethylbenzene	95-63-6	87	220	220	0.44		0.0094	0.0038	<0.0040	<0.0042	<0.0038	0.0042	<0.0042	<0.0042	<0.0037
1,3,5-Trimethylbenzene	108-67-8	180	180	180	2.5		0.0043	0.0024	<0.0040	<0.0042	<0.0038	<0.0040	<0.0042	<0.0042	<0.0037
Acetone	67-64-1	85,000	100,000	100,000	49		0.35	0.65	<0.080	0.044	<0.076	<0.081	<0.084	0.39	0.24
Benzene	71-43-2	15	54	750	0.051		0.003	0.0018	<0.0040	<0.0042	<0.0038	<0.0040	<0.0042	<0.0042	<0.0037
Carbon disulfide	75-15-0	740	740	740	4.2		0.0054	0.01	<0.0080	<0.0083	<0.0076	<0.0081	0.0065	0.0072	<0.0075
Isopropylbenzene (Cumene)	98-82-8	270	270	270	13		0.02	0.0037	<0.0040	<0.0042	<0.0038	<0.0040	<0.0042	<0.0042	<0.0037
Tetrachloroethylene	127-18-4	120	170	170	0.045		0.0076	0.034	<0.0040	<0.0042	<0.0038	<0.0040	0.0038	0.015	<0.0037
Toluene	108-88-3	820	820	820	14		<0.0046	0.0027	<0.0040	<0.0042	<0.0038	<0.0040	<0.0042	<0.0042	<0.0037
Trichloroethylene	79-01-6	6.2	20	34	0.036		0.01	0.018	<0.0040	<0.0042	<0.0038	<0.0040	0.013	0.014	<0.0037
Vinyl chloride	75-01-4	0.84	17	660	0.014		<0.0046	0.0026	<0.0040	<0.0042	<0.0038	<0.0040	0.0031	0.0022	<0.0037
cis-1,2-Dichloroethylene	156-59-2	220	2,000	2,400	0.41		0.06	0.057	<0.0040	<0.0042	<0.0038	<0.0040	0.033	0.025	<0.0037
p-Isopropyltoluene	99-87-6	NE	NE	NE	NE		0.043	<0.0048	<0.0040	<0.0042	<0.0038	<0.0040	<0.0042	<0.0042	<0.0037
trans-1,2-Dichloroethylene	156-60-5	210	690	1,200	0.59		<0.0046	<0.0048	<0.0040	<0.0042	<0.0038	<0.0040	0.012	0.0025	<0.0037
Other VOCs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

See notes on page 7

TABLE 1
SOIL ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Analyte	CAS Number	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹				Soil Migration to Groundwater	CHEMICAL ANALYSES RESULTS (mg/kg)													
		Direct Contact Residential	Direct Contact Commercial / Industrial	Direct Contact Excavation	Sample Location		SB1	SB3	SB5	SB6	SB7	SB2	SB2	SB4	SB8					
							Sample Depth (ft. below grade)	(8-10)	(21-23)	(8-10)	(8-10)	(8-10)	(5-7)	(8-10)	(23-25)	(8-10)				
							Date Collected	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14				
Recognized Environmental Conditions									Former drums of hazardous material and placement of fill from an unknown source (SB1 also off-site historical filling station)					Former drums, fill from an unknown source, and off-site railroad operations, power and heating plant operations						
PAHs							0.16	0.12	0.0046	0.0039	0.0076	<0.0055	0.058	0.076	0.0028					
1-Methylnaphthalene	90-12-0	220	530	33,000	1.0		0.21	0.19	0.0053	0.0036	0.0082	<0.0055	0.09	0.1	0.0028					
2-Methylnaphthalene	91-57-6	320	2,200	3,700	2.8		0.1	0.09	<0.0057	<0.0054	<0.0054	<0.0055	0.052	0.089	<0.0054					
Acenaphthene	83-32-9	4,800	33,000	55,000	82		0.017	<0.028	<0.0057	<0.0054	<0.0054	<0.0055	<0.029	<0.027	<0.0054					
Acenaphthylene	208-96-8	NE	NE	NE	NE		0.075	0.046	<0.0057	<0.0054	<0.0054	<0.0055	0.023	0.061	<0.0054					
Anthracene	120-12-7	24,000	100,000	100,000	860		0.1	0.057	<0.0057	<0.0054	<0.0054	<0.0055	0.044	0.14	<0.0054					
Benzo(a)anthracene	56-55-3	2.1	21	1,300	2.1		0.09	0.05	<0.0057	<0.0054	<0.0054	<0.0055	0.039	0.13	<0.0054					
Benzo(a)pyrene	50-32-8	0.21	2.1	130	4.7		0.088	0.053	<0.0057	<0.0054	<0.0054	<0.0055	0.041	0.12	<0.0054					
Benzo(b)fluoranthene	205-99-2	2.1	21	1,300	7.0		0.06	0.038	<0.0057	0.003	0.0037	<0.0055	0.029	0.089	<0.0054					
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE		0.088	0.055	<0.0057	<0.0054	<0.0054	<0.0055	0.04	0.12	<0.0054					
Benzo(k)fluoranthene	207-08-9	21	210	13,000	68		0.13	0.081	0.0066	0.0059	0.0077	<0.0055	0.068	0.19	0.0029					
Chrysene	218-01-9	210	2,100	100,000	210		<0.028	<0.028	<0.0057	<0.0054	<0.0054	<0.0055	<0.029	0.038	<0.0054					
Dibenz(a,h)anthracene	53-70-3	0.21	2.1	130	2.2		0.35	0.25	<0.0057	<0.0054	<0.0054	<0.0055	0.15	0.38	<0.0054					
Fluoranthene	206-44-0	3,200	22,000	37,000	1,400		0.092	0.068	<0.0057	<0.0054	<0.0054	<0.0055	0.033	0.056	<0.0054					
Fluorene	86-73-7	3,200	22,000	37,000	81		0.052	0.03	<0.0057	<0.0054	<0.0054	<0.0055	0.024	0.067	<0.0054					
Indeno(1,2,3-cd)pyrene	193-39-5	2.1	21	1,300	40		0.89	0.21	<0.0057	<0.0054	<0.0054	<0.0055	0.12	0.13	<0.0054					
Naphthalene	91-20-3	50	180	1,000	0.092		0.43	0.33	0.012	0.0079	0.016	<0.0055	0.17	0.37	0.0053					
Phenanthrene	85-01-8	NE	NE	NE	NE		0.26	0.19	0.0032	0.0038	0.0038	<0.0055	0.11	0.28	<0.0054					
Pyrene	129-00-0	2,400	17,000	28,000	190		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL					
Other SVOCs/PAHs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL					

See notes on page 7

TABLE 1
SOIL ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Analyte	CAS Number	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹				Sample Location Soil Migration to Groundwater	CHEMICAL ANALYSES RESULTS (mg/kg)									
		Direct Contact Residential	Direct Contact Commercial / Industrial	Direct Contact Excavation	Sample Depth (ft. below grade)		SB1	SB3	SB5	SB6	SB7	SB2	SB2	SB4	SB8	
					(8-10)		(21-23)	(8-10)	(8-10)	(8-10)	(5-7)	(8-10)	(23-25)	(8-10)		
		Date Collected					5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14	5/29/14		
PCBs								Former drums of hazardous material and placement of fill from an unknown source (SB1 also off-site historical filling station)								
PCB-1248 (Aroclor 1248)	12672-29-6	3.1	7.4	460	1.0	Former drums of hazardous material and placement of fill from an unknown source (SB1 also off-site historical filling station)	10.9	11.2	<1.1	<0.11	<0.11	<1.1	13.4	5.4	<0.11	
PCB-1254 (Aroclor 1254)	11097-69-1	1.5	7.4	18	1.6		5.0	4.9	<1.1	<0.11	<0.11	<1.1	5.7	2.4	<0.11	
All PCBs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL		
Metals								6.6	6.1	8.6	6.4	7.0	7.6	6.7	5.1	6.8
Arsenic	7440-38-2	8.5	24	640	5.9	Former drums of hazardous material and placement of fill from an unknown source (SB1 also off-site historical filling station)	77	62.7	32.7	40	55.2	41.6	72.3	54.4	45.1	
Barium	7440-39-3	21,000	100,000	100,000	1,700		<0.49	<0.55	<0.53	<0.48	<0.53	<0.55	0.31	<0.47	0.24	
Cadmium	7440-43-9	98	800	1,300	7.5		664	656	10.1	8.2	10.5	11.3	633	929	8.4	
Trivalent chromium	16065-83-1	100,000	100,000	100,000	1,000,000		47.4	43.5	7.8	6.8	6.9	6.1	43	39.4	6.4	
Lead	7439-92-1	400	800	1,000	270		1.1	1.2	<1.1	<0.95	<1.1	<1.1	1.1	1.6	<0.95	
Selenium	7782-49-2	550	5,100	8,600	5.3		1.5	1.1	<0.53	<0.48	<0.53	<0.55	0.85	0.63	<0.48	
Silver	7440-22-4	550	5,100	8,600	12		1.6	1.8	<0.23	<0.23	<0.21	<0.21	1.0	3.3	<0.22	
Mercury	7439-97-6	3.1	3.1	3.1	2.1		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL		
Other Metals	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL		

See notes on page 7

TABLE 1
SOIL ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Analyte	CAS Number	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹			Soil Migration to Groundwater	Sample Location	CHEMICAL ANALYSES RESULTS (mg/kg)										
		Direct Contact Residential	Direct Contact Commercial / Industrial	Direct Contact Excavation			TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10	DUP01 TP10
		Sample Depth (ft. below grade)	(8-10)	(0-1)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)
		Date Collected	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14
Former drums of hazardous material and placement of fill from an unknown source																	
VOCs																	
1,1-Dichloroethane	75-34-3	46	170	1,700	0.14		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
1,2,4-Trimethylbenzene	95-63-6	87	220	220	0.44		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
1,3,5-Trimethylbenzene	108-67-8	180	180	180	2.5		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
Acetone	67-64-1	85,000	100,000	100,000	49		<0.088	<0.082	<0.094	<0.085	<0.097	<0.076	<0.17	<0.080	<0.078	<0.074	<0.077
Benzene	71-43-2	15	54	750	0.051		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
Carbon disulfide	75-15-0	740	740	740	4.2		<0.0088	<0.0082	<0.0094	<0.0085	<0.0097	<0.0076	<0.017	<0.0080	<0.0078	<0.0074	<0.0077
Isopropylbenzene (Cumene)	98-82-8	270	270	270	13		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
Tetrachloroethylene	127-18-4	120	170	170	0.045		0.032	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
Toluene	108-88-3	820	820	820	14		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
Trichloroethylene	79-01-6	6.2	20	34	0.036		0.013	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
Vinyl chloride	75-01-4	0.84	17	660	0.014		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
cis-1,2-Dichloroethylene	156-59-2	220	2,000	2,400	0.41		0.049	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
p-Isopropyltoluene	99-87-6	NE	NE	NE	NE		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
trans-1,2-Dichloroethylene	156-60-5	210	690	1,200	0.59		<0.0044	<0.0041	<0.0047	<0.0042	<0.0048	<0.0038	<0.0084	<0.0040	<0.0039	<0.0037	<0.0039
Other VOCs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

See notes on page 7

TABLE 1
SOIL ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Analyte	CAS Number	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹				Soil Migration to Groundwater	CHEMICAL ANALYSES RESULTS (mg/kg)														
		Direct Contact Residential	Direct Contact Commercial / Industrial	Direct Contact Excavation	Sample Location		TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10	DUP01 TP10				
							Sample Depth (ft. below grade)	(8-10)	(0-1)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)				
							Date Collected	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14				
Recognized Environmental Conditions															Former drums of hazardous material and placement of fill from an unknown source						
PAHs																					
1-Methylnaphthalene	90-12-0	220	530	33,000	1.0		0.055	<0.0055	<0.0054	<0.0054	0.0028	<0.0054	0.011	0.006	<0.0058	<0.0054	0.003				
2-Methylnaphthalene	91-57-6	320	2,200	3,700	2.8		0.078	<0.0055	<0.0054	<0.0054	0.003	<0.0054	0.014	0.007	<0.0058	<0.0054	0.0033				
Acenaphthene	83-32-9	4,800	33,000	55,000	82		0.046	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Acenaphthylene	208-96-8	NE	NE	NE	NE		<0.0056	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Anthracene	120-12-7	24,000	100,000	100,000	860		0.013	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Benzo(a)anthracene	56-55-3	2.1	21	1,300	2.1		0.017	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Benzo(a)pyrene	50-32-8	0.21	2.1	130	4.7		0.016	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Benzo(b)fluoranthene	205-99-2	2.1	21	1,300	7.0		0.016	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE		0.013	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	0.0028	<0.0055	<0.0058	<0.0054	<0.0053				
Benzo(k)fluoranthene	207-08-9	21	210	13,000	68		0.015	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Chrysene	218-01-9	210	2,100	100,000	210		0.023	0.0027	0.0028	<0.0054	0.0032	0.0042	0.005	0.0036	<0.0058	<0.0054	<0.0053				
Dibenz(a,h)anthracene	53-70-3	0.21	2.1	130	2.2		0.0058	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Fluoranthene	206-44-0	3,200	22,000	37,000	1,400		0.07	0.0031	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Fluorene	86-73-7	3,200	22,000	37,000	81		0.027	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Indeno(1,2,3-cd)pyrene	193-39-5	2.1	21	1,300	40		0.011	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Naphthalene	91-20-3	50	180	1,000	0.092		0.11	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	<0.0054	<0.0055	<0.0058	<0.0054	<0.0053				
Phenanthrene	85-01-8	NE	NE	NE	NE		0.09	<0.0055	0.0035	<0.0054	0.0071	0.0054	0.012	0.0091	<0.0058	0.0039	0.0052				
Pyrene	129-00-0	2,400	17,000	28,000	190		0.048	<0.0055	<0.0054	<0.0054	<0.0053	<0.0054	0.0028	<0.0055	<0.0058	<0.0054	<0.0053				
Other SVOCs/PAHs	CS	CS	CS	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL				

See notes on page 7

TABLE 1
SOIL ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Analyte	CAS Number	REMEDIATION CLOSURE GUIDE SCREENING LEVELS (mg/kg) ¹				Soil Migration to Groundwater	CHEMICAL ANALYSES RESULTS (mg/kg)												
		Direct Contact Residential	Direct Contact Commercial / Industrial	Direct Contact Excavation	Sample Location		TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10	DUP01 TP10		
							Sample Depth (ft. below grade)	(8-10)	(0-1)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)	(8-10)		
							Date Collected	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14	5/28/14		
		Recognized Environmental Conditions	Former drums of hazardous material and placement of fill from an unknown source																
PCBs						Former drums of hazardous material and placement of fill from an unknown source	4.5	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
PCB-1248 (Aroclor 1248)	12672-29-6		3.1	7.4	460	1.0	2.0	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
PCB-1254 (Aroclor 1254)	11097-69-1		1.5	7.4	18	1.6	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL			
All PCBs	CS		CS	CS	CS	CS	5.7	8.6	5.9	5.8	8.0	6.8	9.0	6.4	6.8	8.3	6.1		
Arsenic	7440-38-2		8.5	24	640	5.9	61.7	60.7	42.2	29	32.2	39.4	55.5	48	44.6	68.8	49.3		
Barium	7440-39-3		21,000	100,000	100,000	1,700	<0.54	<0.54	<0.50	<0.45	<0.50	<0.48	0.37	<0.49	0.33	<0.49	<0.50		
Cadmium	7440-43-9		98	800	1,300	7.5	997	10.6	9.5	9.3	9.2	10.9	11.3	9.1	11.3	13.3	8.0		
Trivalent chromium	16065-83-1		100,000	100,000	100,000	1,000,000	43.1	7.3	6.2	5.7	10.6	7.9	8.1	6.0	8.8	7.8	5.7		
Lead	7439-92-1		400	800	1,000	270	1.1	<1.1	<1.0	<0.91	<0.99	<0.96	<0.95	<0.98	<1.1	<0.98	<0.99		
Selenium	7782-49-2		550	5,100	8,600	5.3	1.2	<0.54	<0.50	<0.45	<0.50	<0.48	<0.47	<0.49	<0.54	<0.49	<0.50		
Silver	7440-22-4		550	5,100	8,600	12	0.98	<0.22	<0.22	<0.22	<0.22	<0.21	<0.22	<0.22	<0.24	<0.20	<0.22		
Mercury	7439-97-6		3.1	3.1	3.1	2.1	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL		
Other Metals	CS		CS	CS	CS	CS													

See notes on page 7

TABLE 1
SOIL ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Notes:

Only analytes measured at concentrations above their respective Method Reporting Limit in at least one sample are listed.

¹Screening Levels taken from IDEM Remediation Closure Guide, Appendix A, Table A-6, 2014. Results above RL are shown in **bold**. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.

VOCs -Volatile Organic Compounds; PCBs - Polychlorinated Biphenyls, PAHs - Polynuclear Aromatic Hydrocarbons.

Refer to the analytical report for the full list of VOC, PAH, and Metal analytes.

CS - Criterion is specific to individual constituent.

SVOCs - Semi-volatile organic compounds

<RL - concentrations of all non-listed constituents were below their respective Method Reporting

NA - Not applicable or not analyzed (not in assessment scope).

NE - Not established.

Total soil chromium results were compared to Trivalent Chromium Screening Levels

PCBs - Polychlorinated Biphenyls. Refer to the analytical report for the full list of PCB analytes.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CABOT CORP.
SOUTH WASHINGTON STREET, KOKOMO, INDIANA

Analyte	CAS Number	REMEDIATION CLOSURE GUIDE SCREENING LEVELS ($\mu\text{g}/\text{L}$) ¹			Sample Location	CHEMICAL ANALYSES RESULTS ($\mu\text{g}/\text{L}$)			
		Residential Tap	Residential Vapor Exposure	Commercial Vapor Exposure		SB1	DUP01	SB2	TRIP BLANK
		Screened Interval (ft)	Date Collected	20-25	20-25	11-16	NA		
VOCs									
1,2,4-Trichlorobenzene	120-82-1	70	NE	NE		5.1	<5.0	<5.0	<5.0
Hexachloro-1,3-butadiene	87-68-3	2.6	NE	NE		2.6	<5.0	<5.0	<5.0
Toluene	108-88-3	1,000	NE	NE		4.0	<5.0	3.5	<5.0
Tetrachloroethene	127-18-4	5	110	470		<5.0	<5.0	<5.0	2.6
Vinyl chloride	75-01-4	2.0	2.0	35		<2.0	2.9	<2.0	<2.0
Cis-1,2-dichloroethene	156-59-2	70	NE	NE		<5.0	20.1	<5.0	<5.0
Other VOCs	CS	CS	CS	CS		<RL	<RL	<RL	<RL
EDB									
ethylene dibromide	107-06-2	5	43	210		<0.036	<0.036	NA	NA
PAHs									
Naphthalene	91-20-3	1.4	91	460		0.94	1.0	0.86	NA
Other PAHs	CS	CS	CS	CS		<RL	<RL	<RL	NA
Metals									
Barium	7440-39-3	2,000	NE	NE		NA	NA	34.4	NA
Chromium, Trivalent	16065-83-1	16000	NE	NE		NA	NA	73.1	NA
Lead	7439-92-1	15	NE	NE		9.3	8.7	20.3	NA
Other Metals	CS	CS	CS	CS		<RL	<RL	<RL	NA

Notes:

Only analytes measured at concentrations above their respective Method Reporting Limit in at least one sample are listed.

¹Screening Levels taken from IDEM Remediation Closure Guide, Appendix A, Table A-6, 2014.

Results above RL are shown in bold. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.

VOCs - Volatile Organic Compounds; PAHs - polycyclic aromatic hydrocarbons. Refer to the analytical report for the full list of VOC and PAH analytes.

CS - Criterion is specific to individual constituent.

<RL - concentrations of all non-listed constituents were below their respective Method Reporting Limits.

NA - Not applicable or not analyzed (not in assessment scope).

NE - Not Established

APPENDIX A

SAMPLING AND ANALYSIS PLAN

above ground storage tank
air quality
asbestos/lead-based paint
baseline environmental assessment
brownfield redevelopment
building/infrastructure restoration
caisson/piles
coatings
concrete
construction materials services
corrosion
dewatering
drilling
due care analysis
earth retention system
environmental compliance
environmental site assessment
facility asset management
failure analyses
forensic engineering
foundation engineering
geodynamic/vibration
geophysical survey
geosynthetic
greyfield redevelopment
ground modification
hydrogeologic evaluation
industrial hygiene
indoor air quality/mold
instrumentation
masonry/stone
metals
nondestructive testing
pavement evaluation/design
property condition assessment
regulatory compliance
remediation
risk assessment
roof system management
sealants/waterproofing
settlement analysis
slope stability
storm water management
structural steel/welding
underground storage tank

SAMPLING AND ANALYSIS PLAN

CABOT CORPORATION PROPERTY SOUTH WASHINGTON STREET KOKOMO, INDIANA

SME Project Number: 067021.00.003.006

February 11, 2014

Prepared for:

**The City of Kokomo
Hazardous Substances Assessment Grant
Cooperative Agreement Number:
BF-00E01157-0**



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Soil and Materials Engineers, Inc.

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
2.0 PROPERTY HISTORY, CURRENT CONDITIONS, AND PLANNED PROPERTY ASSESSMENT	2
2.1 Property History	2
2.2 Current Conditions	2
2.2.1 Current Conditions: Supplemental Information	3
2.3 Land Use.....	4
2.4 Geologic Setting	4
2.5 Susceptible Areas	5
2.6 Conceptual Site Model	5
2.7 Objectives	5
3.0 SAMPLING PLAN	7
3.1 Geophysical Survey.....	7
3.2 Test Pit Excavation.....	7
3.3 Summary of Soil and Groundwater Sampling Locations.....	8
3.4 Sampling Procedures and Methods	9
3.3.1 Soil Sampling	9
3.3.2 Groundwater (Grab) Sampling	9
3.3.3 Sampling Quality Control/Quality Assurance.....	10
3.3.4 Waste Management	10
4.0 ANALYSIS PLAN	11
5.0 DATA EVALUATION AND REPORTING	12
6.0 ESTIMATED SCHEDULE	13

ATTACHMENTS:

FIGURES:

Figure 1 – USGS 7.5 Minute Topographic Map

Figure 2 – Property Features and Proposed Boring Location Diagram

TABLES:

Table 1 – Analyses Summary Table

ATTACHMENT A:

Conceptual Site Model

1.0 INTRODUCTION

The City of Kokomo in Howard County, Indiana, has received a United States Environmental Protection Agency (U.S. EPA) Brownfields Assessment Grant for hazardous substances in the amount of \$400,000. The City of Kokomo intends to support the redevelopment of the former Cabot Corporation (Cabot) brownfield property located near 400 South Washington Street in Kokomo, Howard County, Indiana (the Property). The location of the Property is shown on Figure 1. The Property consists of approximately 3.43 acres of vacant land covered by grass.

Soil and Materials Engineers, Inc. (SME), environmental consultant for the City of Kokomo, prepared this Sampling and Analysis Plan (SAP) as a requirement of the U.S. EPA brownfields grant program to use assessment grant funds to conduct an environmental assessment of the Property. The objective of the Property assessment is to evaluate current site environmental conditions for the purpose of supporting environmental due diligence for the potential redevelopment of the Property. Descriptions of the Property history and known current environmental conditions; strategies and procedures for soil and groundwater sampling, chemical analyses of collected soil and groundwater samples, data evaluation, and reporting; and the estimated project schedule are presented in the following sections. The City of Kokomo Quality Assurance Project Plan (QAPP) was approved by the U.S. EPA on May 16, 2013. Eligibility for the Property was granted on May 23, 2013.

2.0 PROJECT BACKGROUND

2.1 Property History

Based on the August 20, 2013, Phase I Environmental Site Assessment (Phase I) we prepared, it appears that the Property was a stone quarry from circa 1909 until circa 1987. Beginning with the 1992 aerial photograph, it appears that the quarry was filled and the Property has remained relatively unchanged since that time.

The Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC) contained documents indicating that the former quarry on the Property was used as an open dump. Drummed wastes were reportedly deposited on the Property prior to the enactment of the Resource Conservation and Recovery Act (RCRA) in 1976. Cabot completed a voluntary cleanup of the Property in 1990 that included removal of approximately 200 drums containing metal turnings and low level radioactive waste that were disposed on-site by the previous owner, Union Carbide¹. During excavation activities, one drum containing hydrogen sulfide was ruptured, emitting a cloud of hydrogen sulfide gas. Additionally, at an unknown time in the past, the Property had permits that enabled them to act as a transfer facility for materials that contained radioactive isotopes. Section 2.2.1 contains additional information about the radioactive waste. The current general Property features are depicted on Figure 2.

2.2 Current Conditions

Our knowledge of suspected/potential environmental impacts on the Property was developed through our Phase I Environmental Site Assessment (ESA). We identified the potential for environmental impact associated with the following recognized environmental conditions (RECs) in connection with the Property:

- The known former presence of drums of hazardous materials associated with the dumping activities conducted by a former owner (Section 5.2.4 of Phase I ESA).
- The potential for environmental impact associated with placement of fill materials from an unknown source onto the former on-site quarry (Section 5.4.3 of Phase I ESA).

¹ The radioactive wastes were grinding wheels that incorporated metal abrasives that had naturally occurring radioactivity.

- The potential for environmental impact from the unreported and/or undetected migration of hazardous substances and/or petroleum products associated with the historical off-site operations, including storage of coal and lumber, gasoline station activities, power and heating plant activities, and railroad activities (Section 5.4.3 of Phase I ESA).

The coal storage area referenced above was conducted in a concrete coal bin. The concrete would likely limit the potential migration of contaminants related to coal storage onto the property. The coal storage is therefore considered a *de minimis* condition and is not addressed by this SAP.

2.2.1 Current Conditions: Supplemental Information

SME prepared a Phase I Addendum dated November 5, 2014, that was based on the receipt of the Owner questionnaire and other information from Cabot Corporation. The Cabot Corporation supplied information that pertained to the voluntary removal of approximately 404 drums of hazardous and radioactive waste. In order to terminate the NRC license, which Cabot obtained to remove the waste, the Property had to meet the termination criteria outlined in 10 CFR Part 20, Subpart E. As such, the NRC agreed their termination criteria had been met when they terminated the license.

Soils were tested for uranium and thorium. The concentrations of uranium were within the IDEM screening levels for direct contact. There are no IDEM screening levels for thorium however the concentrations were less than the standards established in 40 CFR Part 192, Subpart B and 10 CFR Part 40, Appendix A. Groundwater was assessed for gross alpha and beta activity. The alpha activity was less than the USEPA Maximum Contaminate Level (MCL). The beta activity was also less than the MCL if the activity was from uranium or thorium. Based on the information provided, the past disposal of radioactive waste is a historical REC in association with the Property and further evaluation is not required.

Information was not provided concerning sampling of the soils for the hazardous waste found in over 350 drums buried at the Property. The potential for releases from these drums is a REC in association with the Property.

Mr. Wayne Reiber, Manager of Environmental Assessment for Cabot Corporation completed the Owner Questionnaire. For most answers, he referenced the information he provided and discussed above. He acknowledged the former presence of the quarry, hidden chemicals, drums, fill area, and drum storage, all of which reference the quarry and the buried wastes that were once present. He stated approximately 10,000 tons of clean fill was brought to

the Property and the fill had been tested and “found not to contain contaminants.” Mr. Reiber did not provide the results of this fill soil. The former use of the Property for disposal of waste and the unknown condition of the fill soil are RECs in connection with the Property.

As part of the *Real Estate Donation Agreement* between Cabot Corporation and the City of Kokomo, Cabot Corporation agreed to “excavate and remove, or cause to be excavated and removed, approximately 55 tons of grinding wheels buried between 10 and 20 feet below existing grade”. “Cabot shall ensure the safe disposal of the Grinding Wheels in compliance with applicable state and federal laws; and unless otherwise agreed to in writing by the Parties, Cabot shall cause the excavation necessitated by the removal of Grinding Wheels to be backfilled with clean soil provided by City, and field compacted...” According to the City of Kokomo engineer, the grinding wheel removal operations were completed prior to the Property closing. The grinding wheels were reportedly removed from the northeast portion of the Property. Therefore, based on the Supplemental Information, the RECs to be investigated by this SAP include:

- The known former presence of drums of hazardous materials associated with the dumping activities conducted by a former owner.
- The potential for environmental impact associated with placement of fill materials from an unknown source onto the former on-site quarry
- The potential for environmental impact from the unreported and/or undetected migration of hazardous substances and/or petroleum products associated with the historical off-site operations, including storage of lumber, gasoline station activities, power and heating plant activities, and railroad activities.

2.3 Land Use

The most recent land use of the Property was commercial. The planned future use of the Property is as a stormwater retention basin. Approximately 60,000 cubic yards of soil will be removed from the Property for off-site use by the City of Kokomo as fill material for two proposed construction projects.

2.4 Geologic Setting

The Cabot Corporation Property was located in a depression at an elevation of approximately 790 feet above mean sea level (MSL). We reviewed an IDNR water well log for a well installed approximately 0.2 miles northwest of the Property. The native soils encountered during the installation of the water well consisted yellow clay to a depth of 10 feet below the

ground surface (bgs) that was underlain with blue clay to a depth of 29 feet bgs. Sand and gravel was present beneath the clay layer and extended to a depth of 44 feet bgs. The sand and gravel layer was underlain with alternating layers of blue and gray stone (presumed to be limestone) to the termination point of the boring at a depth of 160 feet bgs. The static water level in the well was 22 feet bgs. The westerly flowing Wildcat Creek is located approximately 400 feet north of the Property.

Based on local topography and surface hydrology, groundwater is expected to flow to the north-northwest.

2.5 Susceptible Areas

According to the U.S. Fish and Wildlife Service National Wetland Inventory Wetland Mapper (www.fws.gov/wetlands/Wetlands-Mapper.html), no portions of the Property or surrounding area exhibited characteristics of a wetland. The Wildcat Creek is located approximately 400 feet north of the Property and is considered a Riverine type wetland. There were no other wetlands identified within one-half mile of the Property. Foster Park is located approximately 685 feet northwest of the Property, Meridian Park is approximately 0.35 miles southwest of the Property, Future Park is located approximately 0.36 miles east of the Property (east of Wildcat Creek), and Central Middle School is located approximately 0.20 miles northeast of the Property. No ecologically sensitive areas are apparent near the Property.

2.6 Conceptual Site Model

A conceptual site model diagram that shows the possible pathways from sources through media and exposure scenarios to potential receptors is included in Attachment A.

2.7 Objectives

The assessment activities described in this SAP are designed to characterize current Property conditions to support identification of environmental liability in conjunction with the potential redevelopment of the Property. The Property assessment goal will be achieved through accomplishment of the following objectives:

- Evaluate if contamination associated with the RECs identified in the Phase I ESA is present.
- If contamination is present, evaluate whether current environmental conditions warrant remediation.

These Property assessment goals will be achieved through the following:

- Conducting limited subsurface activities (test pits and soil borings) to assess potential environmental impacts from historical use of the Property, as identified during the Phase I ESA and Phase I ESA Addendum.
- If contamination is discovered, determine if regulated constituents are present at concentrations greater than IDEM Remediation Closure Guide Screening Levels.
- Generating sufficient data to determine if the future use as a stormwater retention area could require remediation of soil or groundwater to meet risk-based and regulatory goals.

3.0 SAMPLING PLAN

SME will use a systematic sampling design to evaluate the RECs identified in the Phase I ESA. The sampling plan includes the following: 1) geophysical survey, 2) a summary of soil and groundwater sampling locations and sampling rationales, and 3) descriptions of procedures and methods for field sampling. A summary of the soil and groundwater samples to be collected for this assessment is presented in Table 1 while sampling locations are shown in Figure 2. Specific sample depths are described in Section 3.2.1.

3.1 Geophysical Survey

SME will monitor the completion of a ground penetrating radar (GPR), magnetometer (Mag), and electromagnetic (EM) conductivity survey to determine if buried drums remain at the Property. The GPR/Mag/EM survey will be completed across the entire Property, with the exception of the areas adjacent to the eastern and southern and Property boundaries where trees and brush are present that would prevent the movement of the geophysical survey equipment. The GPR/Mag/EM survey will be completed by Prism Geoimaging prior to completion of the test pits and soil boring activities.

3.2 Test Pit Excavation

SME will direct and monitor the excavation of ten test pits (TP1 through TP10) across the Property to evaluate the potential for contamination associated with the former disposal of drums containing hazardous materials and the placement of fill materials from an unknown source on the Property (Figure 2). The test pits will help evaluate the fill material placed across the Property and the potential existence and vertical and lateral extent of buried debris, if any. The test pits will be excavated by an earthwork subcontractor in approximately 10 locations that are generally evenly spaced across the Property to an approximate depth of 14 feet below the ground surface (bgs). However, the number and locations of the test pits may be modified based on the results of the geophysical survey.

Based on the information reviewed during the completion of the Phase I ESA drummed buried waste is not anticipated to be encountered and the geophysical is intended to confirm this premise. However, if buried drums are discovered; SME field personnel will direct the subcontractor to stop work at that location, backfill the excavation, and record the location and number of drums observed. The City of Kokomo, the IDEM and EPA will be notified of the discovery and the specific area will be evaluated at a later date under a modified SAP and health and safety plan (HASP).

SME will monitor the test pit excavations and document visual observations including descriptions of the materials encountered, depths encountered, specific locations, photographs and other relevant information of current Property conditions. Soil samples will be collected according to the methods described in SOP 3, *Soil Sampling from Test Pits*, included in SME's approved QAPP prepared for the Kokomo Coalition and approved on May 16, 2013.

3.3 Summary of Soil and Groundwater Sampling Locations

SME will collect soil and/or groundwater samples from 18 locations on the Property that are depicted on Figure 2. Test pits TP1 through TP10 and soil borings SB1 through SB8 will be completed across the Property to evaluate the potential for contamination associated with the former use of the Property for disposal of drums containing hazardous materials and the placement of fill materials from an unknown source. Additionally, select soil borings will be used to assess the off-site RECs, identified in the Phase I, that are discussed in the following paragraphs.

Soil borings SB1 through SB8 will be advanced using hydraulically driven, direct-push coring equipment. Soil samples will be collected from each direct-push soil boring for visual classification, field screening, and laboratory analyses. Groundwater samples will be collected, if encountered, from each soil boring for laboratory analyses. Specific sampling objectives and their respective sampling locations are discussed below.

SME will advance soil borings SB1 through SB8 to evaluate the potential for contamination associated with the former use of the Property for disposal of drums, and the presence of undocumented fill materials. Additionally, soil boring SB1 will evaluate a former off-site gasoline filling station, SB2 will evaluate the former off-site lumber yard, former off-site power and heat plant operations, and off-site railroad activities, and SB4 and SB8 will evaluate the off-site railroad activities.

The borings will be advanced to a depth that is the shallower of approximately 25 feet below grade or the depth at which groundwater is encountered. Temporary groundwater wells will be installed in these soil borings at a depth of five feet beyond the depth of first groundwater encountered. Based on geologic information from an adjacent site, limestone bedrock may be present at depths ranging from approximately 18 to 45 feet bgs, although historical mining activities at the former quarry may have increased the depth to bedrock at the Property.

3.4 Sampling Procedures and Methods

Soil and groundwater sampling, quality assurance/quality control (QA/QC), and waste management procedures and methods are summarized in this subsection.

3.4.1 Soil Sampling

Soil samples will be collected from each test pit and soil boring from the most appropriate interval to assess the highest expected levels of contaminated soil. SME field personnel will screen soil samples visually and with a photo-ionization detector (PID) for evidence of contamination. Soil samples will be collected for chemical analyses as described below:

- Where the PID results identify the potential presence of volatile organic compounds (VOCs), the interval with the highest reading will be selected,
- When there are no detectable PID results, the following procedure and criteria will be used, in order of presentation:
 1. If an interval has a specific odor that other intervals do not have, it will be selected for analysis,
 2. If signs of man-made impact (debris, obvious metals, other materials) are present in one interval that other intervals do not have, that interval will be selected,
 3. If an interval has a discoloration that does not appear to be the color of native soil, while other intervals appear to be the color of native soil, that interval will be selected for analysis, and
 4. In the absence of indicators listed in 1 through 3, the 8-10 foot interval will be sampled, if above groundwater. If not, the interval above groundwater.

Soil samples will be collected according to the methods described in SOP 1, *Soil and Groundwater Sampling Using Direct-Push Methods*. Soil Samples collected for laboratory analysis of VOCs will be collected and preserved following the methods described in SOP 4, *Methanol Preservation*.

3.4.2 Groundwater (Grab) Sampling

Groundwater samples will be collected from the temporary groundwater wells installed in each soil boring. The temporary wells will use pre-packed well screens. Samples will be collected, using low-flow techniques, from the temporary well screens placed in the open boreholes as described in SOP 5, *Low Flow (Minimal Drawdown) Sampling*. The elevations of the temporary well casings will be surveyed relative to an arbitrary benchmark. SME will use the well casing elevations and the depth to groundwater data to prepare a groundwater contour map for the Property.

3.4.3 Sampling Quality Control/Quality Assurance

QA/QC samples will be collected as described in *SOP 6, Field Quality Control Samples*, included in the project QAPP. A summary of the QA/QC samples to be collected is presented in Table 1.

3.4.4 Waste Management

Investigation-derived wastes will be handled as described in *SOP 12, Investigated Derived Wastes*, included in the project QAPP.

4.0 ANALYSIS PLAN

The soil and groundwater samples will be analyzed for constituents associated with the historic use of the Property. Soil and groundwater samples will be analyzed as described in the following paragraphs. A summary of the samples to be analyzed for each analyte group is presented in Table 1.

The target analytes for the chemicals-of-concern in the assessment will include the following: volatile organic compounds (VOCs), the lead scavengers 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB), polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and the Resource Conservation Recovery Act (RCRA) metals: arsenic, barium, cadmium, chromium (III and VI), lead, mercury, selenium, and silver. These analytical parameters were selected because these chemicals are associated with the former drums of hazardous materials buried on-site, the fill materials from an unknown source, and the off-site storage of lumber, off-site power and heating plant activities, and off-site railroad activities (VOCs, PAHs, PCBs, RCRA Metals) and the off-site underground storage tanks (VOCs, PAHs, lead, and the lead scavengers).

Groundwater samples collected near the former off-site gasoline filling station (SB1) will be analyzed for VOCs, PAHs, lead, and the lead scavengers. The remaining groundwater samples will be analyzed for VOCs, PAHs, and RCRA metals.

Laboratory testing, analysis method reporting limits (MRLs), QA/QC procedures, and reporting protocols used or performed by Pace will be consistent with those described in the project QAPP. Pace will analyze the samples for the following constituents using the referenced methods:

- VOCs – EPA Method 8260B (including 1,2-DCA in groundwater)
- EDB – EPA Method 8260B in soil, 8011 in groundwater
- PAHs – EPA Method 8270C
- PCBs – EPA Method 8082/8082A
- Metals – EPA Method 6020, 7196, and 7470

5.0 DATA EVALUATION AND REPORTING

Data collected during this Property assessment will be evaluated as described in Section 4.0 - Data Verification/Validation and Usability of the project QAPP. Following data review, verification, and validation, SME will prepare a Phase II ESA report. The report will include details of the activities performed, procedures followed, and results. The report will include a sampling location diagram, tabulated analytical results, soil boring logs, a copy of the laboratory analytical report for all samples collected, and a copy of the chain-of-custody (COC) records.

6.0 ESTIMATED SCHEDULE

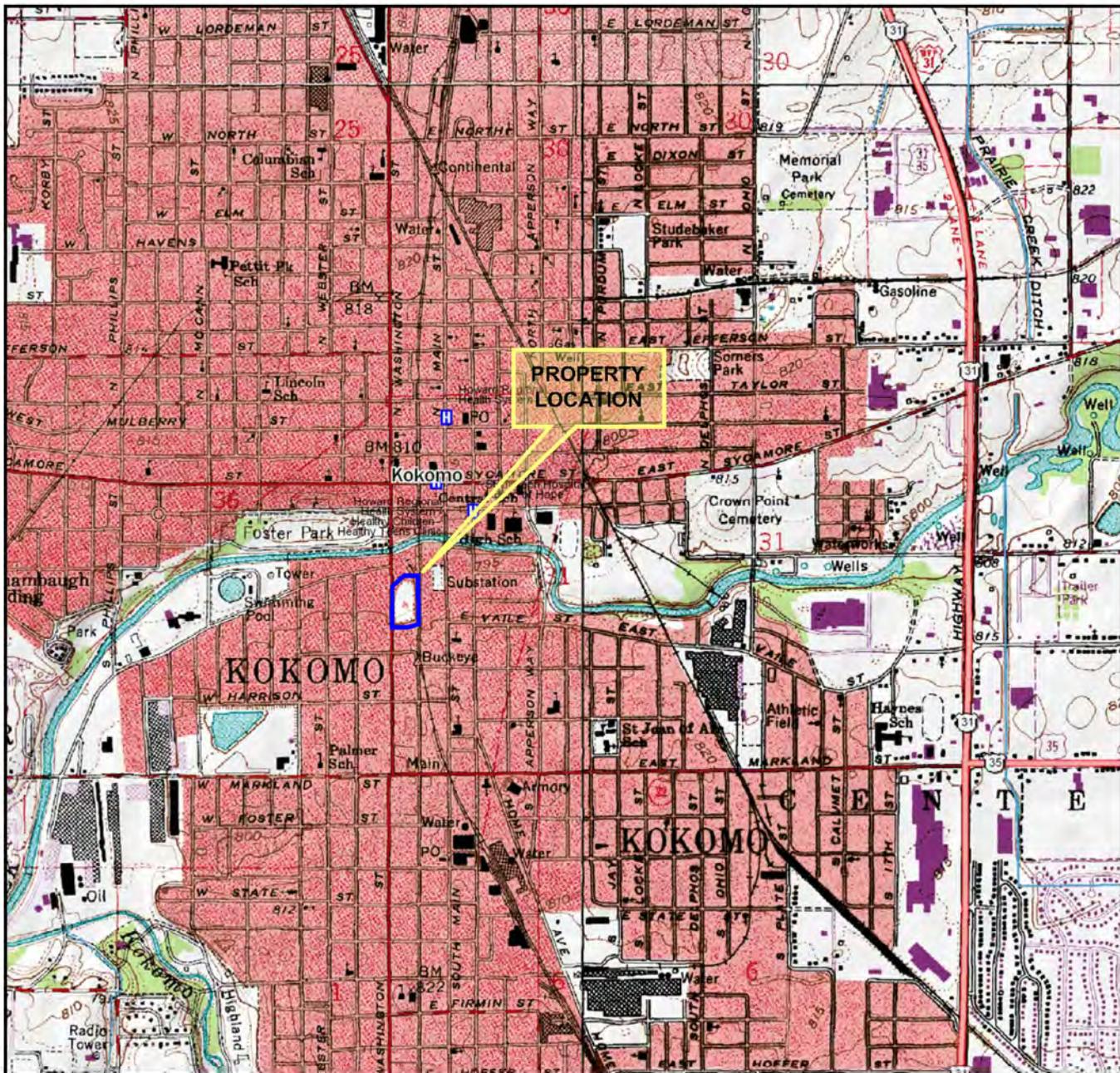
The environmental activities described in this SAP are to be implemented according to the schedule presented below. This schedule is in weeks relative to EPA and City approval of the final SAP.

- Field sampling..... Week 3
- Laboratory analyses Week 3 through Week 5
- Data evaluation and reporting..... Week 6 through Week 9

FIGURES

FIGURE 1 – USGS 7.5 MINUTE TOPOGRAPHIC MAP

**FIGURE 2 – SITE FEATURES AND PROPOSED SOIL BORING LOCATION
DIAGRAM**



Base map obtained from ©DeLorme Topo North America™ 10.

LEGEND



APPROXIMATE
PROPERTY LOCATION

0' 2000'
 SCALE: 1" = 2000'

USGS QUADRANGLE(s) REFERENCED

KOKOMO WEST (IN) TOPO QUAD - 1995
KOKOMO EAST (IN) TOPO QUAD - 1994



Feb 10, 2014 - 9:55am - jblake

\Smefile\work in progress\067021.00\CAD\067021.00.003.006\DWGS\rev1\067021.00.003.006-01.dwg



Indiana
Michigan
Ohio

Date:	2-10-14
Drawn By:	GM
Scale:	1" = 2000'
Project:	067021.00.003.006

**USGS 7.5 MINUTE TOPOGRAPHIC MAP
CABOT CORPORATION PROPERTY
SOUTH WASHINGTON STREET
KOKOMO, INDIANA**

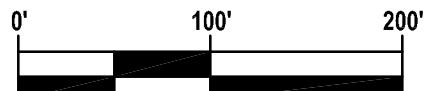
Figure No. 1



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOIL BORING LOCATION WITH TEMPORARY WELL
- TEST PIT LOCATION

NOTE:
DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO,
PROPERTY RECONNAISSANCE AND HOWARD COUNTY,
INDIANA GIS SITE.



GRAPHIC SCALE: 1" = 100'

Feb 10, 2014 - 12:48pm - jblake

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No.	Revision Date

TABLE

TABLE 1 – ANALYSES SUMMARY TABLE

TABLE 1
PROPOSED SAMPLE COLLECTION AND ANALYSES
502 EAST JEFFERSON STREET
KOKOMO, INDIANA

SAMPLE TARGET REC #	SAMPLE ID	BORING DEPTH (bgs)	TARGET SAMPLE DEPTH		MEDIA	ANALYTES									
			Depth (bgs)	Rationale		VOCs	PAHs	PCBs	RCRA Metals*	Lead	EDB				
REC#1 -former presence of drums of hazardous materials. REC #2 - placement of fill materials from an unknown source.	TP1 - TP10 and SB1 - SB8	25'	TBD ¹	Investigate potential migration of contaminants associated w/ historical off-site sources.	Soil	18	18	18	18	0	0				
					Water	8	8	0	8	0	0				
REC#3 -Off-site historical storage of lumber, power and heating plant activities, and railroad activities	SB2, SB4, and SB8	25	TBD ¹	Investigate potential migration of contaminants associated w/ historical off-site sources.	Soil	3	3	3	3	0	0				
					Water	2	2	0	3	0	0				
REC#4 -Off-site historical automobile service and underground petroleum storage.	SB1	25'	TBD ¹	Investigate potential migration of contaminants from historical off-site sources.	Soil	1	1	0	0	1	1				
					Water	1	1	0	0	1	1				
Media Samples			Soil			22	22	21	21	1	1				
			Groundwater			11	11	0	11	1	1				
QA/QC Samples	Trip Blank		Soil			-	-	-	-	-	-				
			Groundwater			1	-	-	-	-	-				
	Equipment Blank		Soil			-	-	-	-	-	-				
			Groundwater			-	-	-	-	-	-				
	Field Duplicate		Soil			1	1	1	1	1	1				
			Groundwater			1	1	-	1	1	1				
QA/QC Subtotals			Soil			1	1	1	1	1	1				
			Groundwater			2	1	-	1	1	1				

Notes:

Equipment blank (EB) not needed for soil which are collected in clean, disposable, acetate liners. EB not needed for groundwater because samples collected using clean, disposable tubing, dedicated to each well.

1. The sample depth will be determined in the field in accordance with the criteria established in Section 3.4 of the Sampling Plan
PCBs-polychlorinated biphenyls

VOCs - Volatile organic compounds

PAHs- polycyclic aromatic hydrocarbons

EDB - ethylene dibromide

RCRA Metals*-arsenic, barium, cadmium, chromium (III and VI), lead, mercury, selenium, and silver

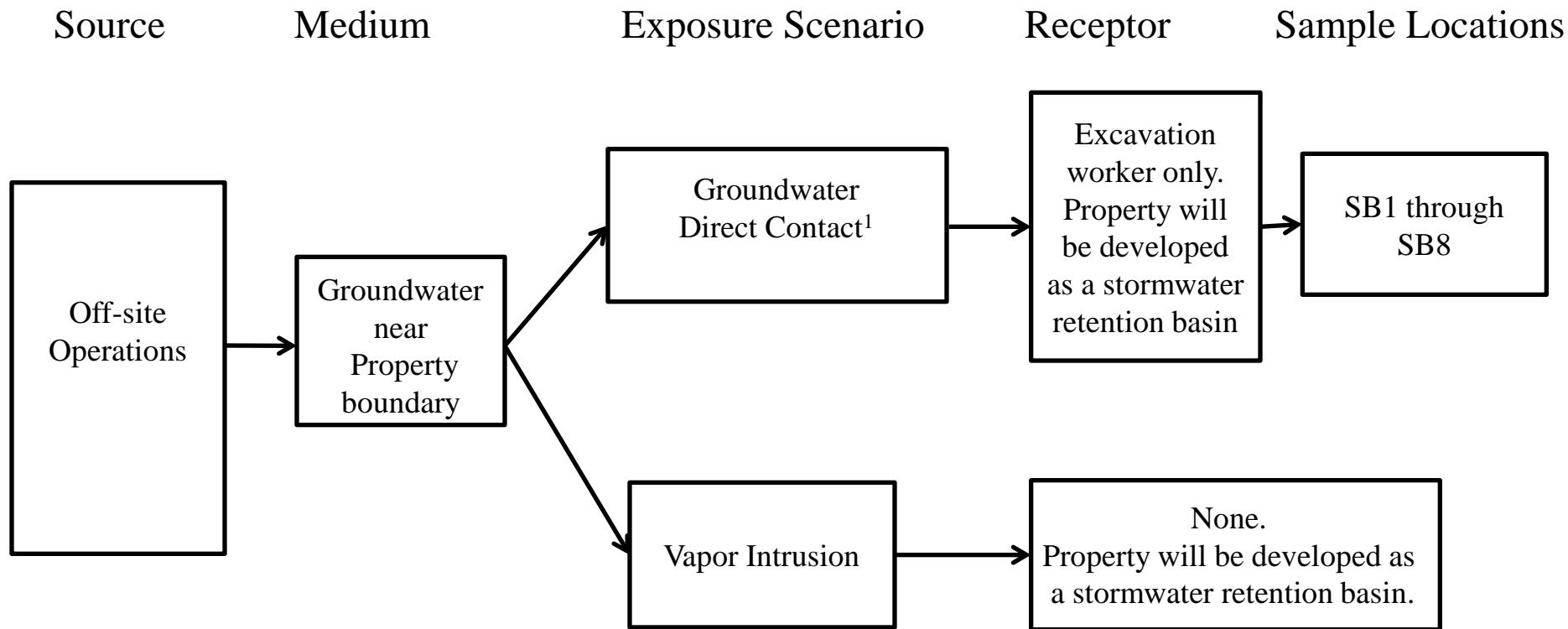
TBD - To Be Determined

ATTACHEMENT A

CONCEPTUAL SITE MODEL

Conceptual Site Model Diagram

Cabot Property

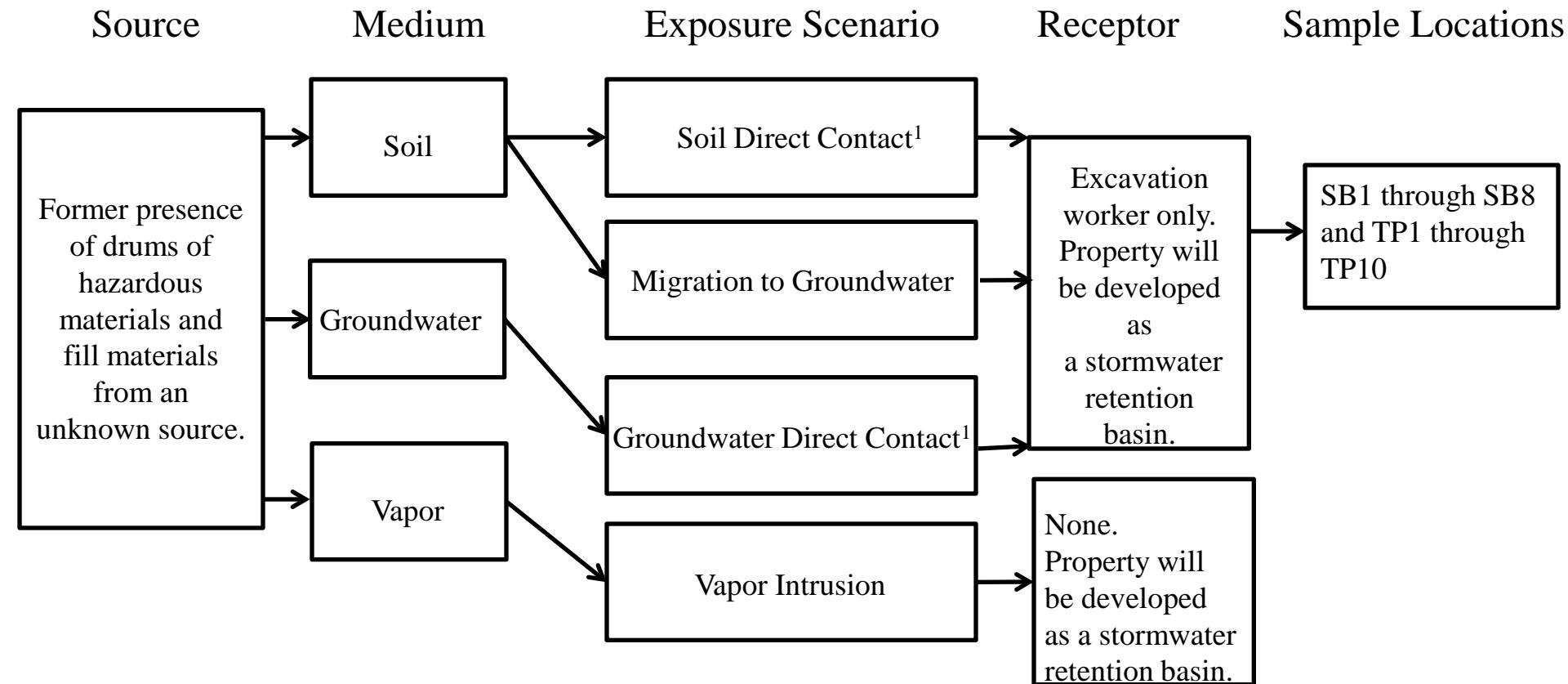


¹ Direct contact in Indiana includes one or more of four absorption routes:

- Absorbing chemicals through the skin when touching soil or sediment
- Inhaling vapors while in direct contact with potentially contaminated soil or sediment
- Inhaling potentially contaminated soil or sediment particles (e.g., dust)
- Ingesting potentially contaminated soil or sediment

Conceptual Site Model Diagram

Cabot Property



¹ Direct contact in Indiana includes one or more of four absorption routes:

- Absorbing chemicals through the skin when touching soil or sediment
- Inhaling vapors while in direct contact with potentially contaminated soil or sediment
- Inhaling potentially contaminated soil or sediment particles (e.g., dust)
- Ingesting potentially contaminated soil or sediment

APPENDIX B

GEOPHYSICAL SURVEY RESULTS

May 22, 2014

Christopher G. Shaw, CHMM
Project Manager
Soil and Materials Engineers, Inc.
5847 W. 74th Street
Indianapolis IN 46278-1757

Re: Geophysical Investigation
Landfill Characterization
Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008

Dear Chris,

Prism GeoImaging, Inc. (Prism) is pleased to present Soil and Materials Engineers, Inc. (SME) with this letter report documenting the geophysical investigation at the above-referenced project site (the "Site").

Introduction

Based on discussions with SME prior to the geophysical investigation, it was my understanding that the property was a stone quarry in the 1880s. The property was subsequently used as a landfill, drums were later removed from the Site in the early 1990s under the oversight of EPA/IDEM, and it assumed that the property was filled with clean sand. You have asked Prism to conduct a geophysical investigation designed to locate potential landfill materials at the Site.

Geophysical Methods

The scope of work for this investigation includes 1) electromagnetic high-resolution metal detection to detect metal features such as drums and debris, and 2) electromagnetic conductivity mapping to identify areas of non-metallic fill. A summary of these methods is as follows:

Electromagnetic Metal Detection Mapping

High resolution time-domain electromagnetic metal detection (EMD) was selected as the method of investigation to identify buried drums and other metallic features. EMD data were collected with an EM61-MK2 metal detector manufactured by Geonics Ltd. The EM61-MK2 consists of two vertically separated 1-meter by 0.5-meter coaxial coils mounted to a wheel assembly. The instrument operator pulls the coil assembly along the line of profile while data is collected nearly continuously. The EM61-MK2 is designed to take readings from the bottom coil (designated as channel three) and an additional reading from the top coil. The top and bottom coil readings are then subtracted to selectively filter out the effect from near-surface metal objects (designated as channel difference calculation). The channel three reading is considered to be a measure of all metal both shallow and deep within the detection limits of the instrument, while the channel difference calculation is a measure of

predominantly deeper metal only. EM61 geophysical surveys are commonly used to map the locations of metal objects such as underground storage tanks (USTs), buried drums, relict utilities and infrastructure, former building foundations, construction and industrial debris, and in some situations unexploded ordnance (UXO).

EM61 anomalies are generally consistent in character from site to site, independent of the environment. For a relatively large metal object buried at 2 to 4 feet in depth, the magnitude of the channel three anomaly is generally in the upper 100's to near 1,000 millivolts and the channel difference value is generally in the low to mid 100's millivolts. The contrast between the channel three and channel difference values is more subdued for deeper metal objects than for shallow objects. Large metal objects close to the surface (e.g. reinforced concrete, manholes) cause too great of an instrument reading to be filtered out, so the anomalies from such features will remain on the channel difference map.

Electromagnetic Conductivity Mapping

Electrical conductivity is one of the most widely varying physical properties of natural materials. Certain minerals, such as native metals and graphite, conduct electricity via the passage of electrons; however, electronic conduction is generally very rare in the subsurface. Most minerals and rocks are insulators, and electrical current preferentially travels through the water-filled pores in soils and rocks by the passage of the free ions in pore waters (i.e., ionic conduction). It thus follows that degree of saturation, interconnected porosity, and water chemistry (i.e., total dissolved solids) are the major controlling variables of the conductivity of soils and rocks. In general, electrical conductivity directly varies with changes in these parameters, however there is no unique direct conversion from conductivity values to lithology. Fine-grained sediments, particularly clay-rich sediments such as glacial till, are excellent conductors of electricity, often much better than fresh water found in the pores of sand and gravel. Typically, coarse materials (sand, gravel, non-reinforced concrete rubble, etc.) are the least conductive, whereas silt, clay, ash, cinders, wood, paper and other fine grained, moist materials are conductive to the highest degree of non-metallic materials. Electromagnetic conductivity mapping is often used for locating and mapping the extent of buried waste, fill material, and landfilled areas by providing indications of soil type based on the electrical conductivity.

The instrument used for this work is an EM31 electromagnetic conductivity meter manufactured by Geonics Ltd. The EM31 induces electrical current flow in the subsurface by generating an electromagnetic field using a transmitter coil; a receiver coil at the other end of the instrument is used to measure the subsurface current flow. The instrument then converts the transmitter output and receiver input values into apparent conductivity and in-phase measurements. Since the EM31 instrument does not require direct ground contact, data collection rates are relatively fast. This makes EM31 conductivity mapping well-suited to rapid scanning of very large areas, though it affords limited information on the vertical distribution of anomalous areas.

Data Collection

EM61-MK2 and EM31 data were collected using a differentially-corrected GPS receiver to record the instrument location in real time (see Figure 1 for EM61-MK2 data coverage and Figure 4 for EM31 data

coverage). After the data were collected they were downloaded to a computer for subsequent processing with *Surfer v12* to create the data maps (see Figures 2-3, and Figures 5-6).

Results and Interpretations

The EM61-MK2 channel three map (Figure 2) shows a swath of high readings along the northwestern study area boundary as well as a scattering of smaller metal objects, particularly near the western boundary. Most of these features are filtered out on the channel difference map (see Figure 3) indicating that they are shallow or surficial metal objects, what remains is the swath of anomalies at the northwestern boundary. These anomalies are incoherent in shape, suggesting buried metallic debris or randomly-placed items (as opposed to systematic disposal of high quantities of drums). This area at the northwestern boundary should be considered as possibly containing buried drums or other features of potential concern.

The EM31 conductivity map (Figure 5) shows the northern third of the Site as containing higher conductivity soil than the southern two-thirds. This likely indicates that the soil in the northern portion is more clayey than in the southern portion, and therefore the northern portion may not have been filled with clean sand as it is assumed. A linear low conductivity anomaly is seen at the southwestern boundary wrapping around to the southern boundary. This anomaly is consistent with a utility line, or possibly the edge of the former quarry; as such this anomaly may indicate the limits of the clean sand fill material in this area.

The EM31 in-phase (also known as magnetic susceptibility) readings are indicative of metallic objects; in some cases the EM31 in-phase readings are more sensitive than the EM61-MK2 instrument, which is preferentially tuned to locate large metal objects. The EM31 in-phase map (Figure 6) shows two faint anomalies; the low in-phase readings are indicative of either relatively small metal objects, or metal objects that are buried at a depth that is near the detection limit of the instrument. These in-phase anomalies should be considered as possibly containing buried drums or other features of potential concern.

These results and interpretations are summarized on Figure 7.

Limitations

This geophysical survey was intended to locate metal and non-metal landfill materials. Anomalies of potential interest that are dissimilar to landfill anomalies may have gone undetected or uninterpreted by this survey. Areas obscured by features such as buildings and reinforced concrete may conceal additional anomalies of interest that are unknown at this time.

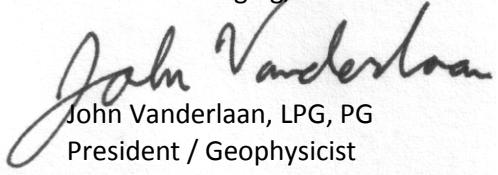
The enclosed maps are considered to be of sufficient accuracy and precision to provide you with positional data for further investigation activities. However the Site features presented on the base maps are for informational purposes only and no representation is made as to the accuracy or completeness of this information. The enclosed maps, while they may indicate locations of utilities, are not to be taken as a map of utility locations and are not a substitute for a private utility locate.

Closing

Prism Geoimaging, Inc. appreciates the opportunity to provide SME with this geophysical survey, and I look forward to working with you on future projects. If you should have any questions regarding this project, please do not hesitate to contact me.

Sincerely,

Prism Geolmaging, Inc.



John Vanderlaan

John Vanderlaan, LPG, PG
President / Geophysicist

attachments



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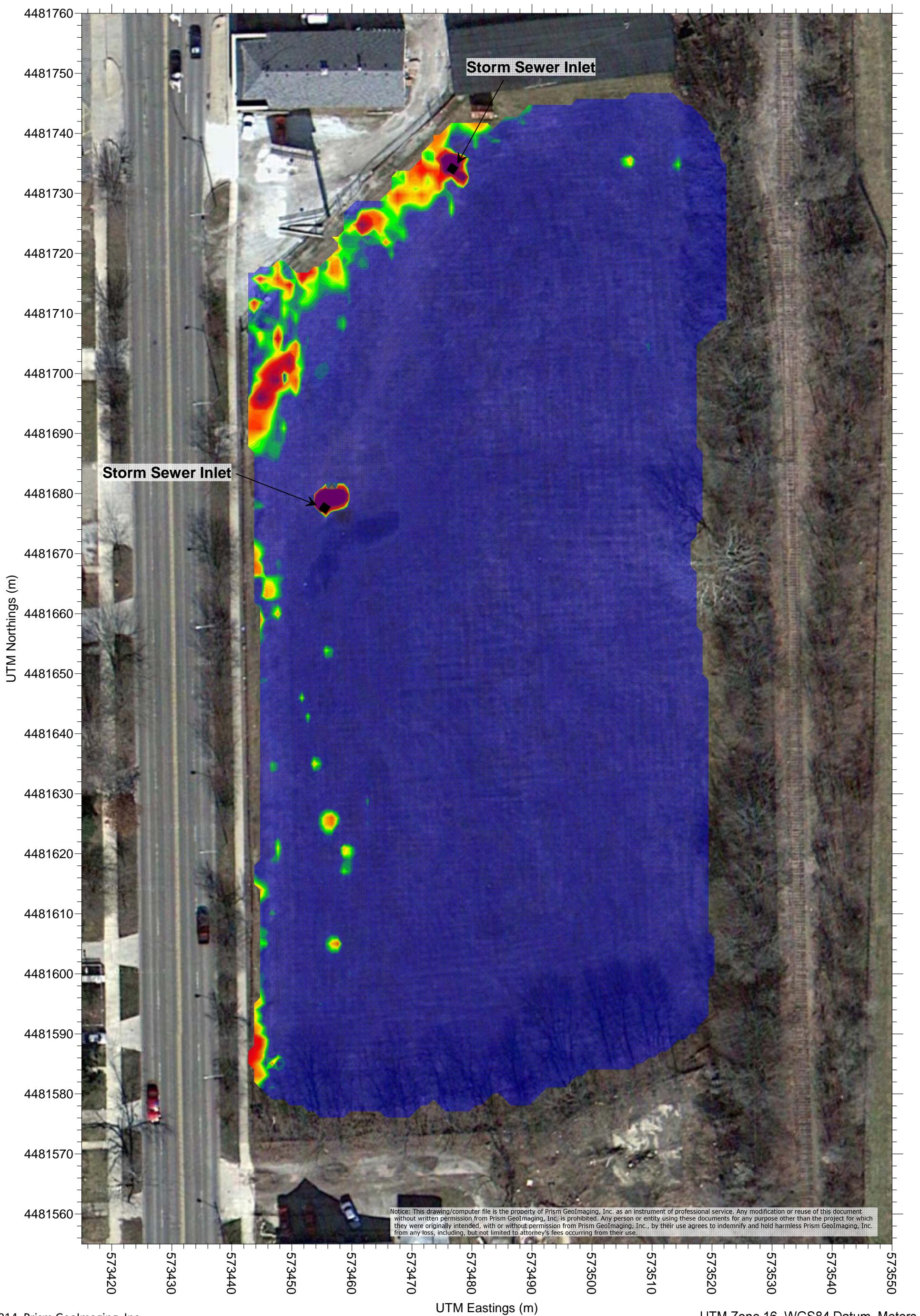


Prism GeoImaging, Inc.
11057 Allisonville Road, #144
Fishers, Indiana 46038-2331
www.prismgeo.com

N
Scale in Feet
0 10 20 30 40
1" = 50'

LEGEND

Figure 1
Site Layout And EM61 Data Coverage
Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008



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Scale in Feet
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1" = 50'

LEGEND

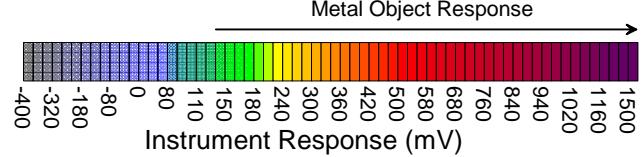
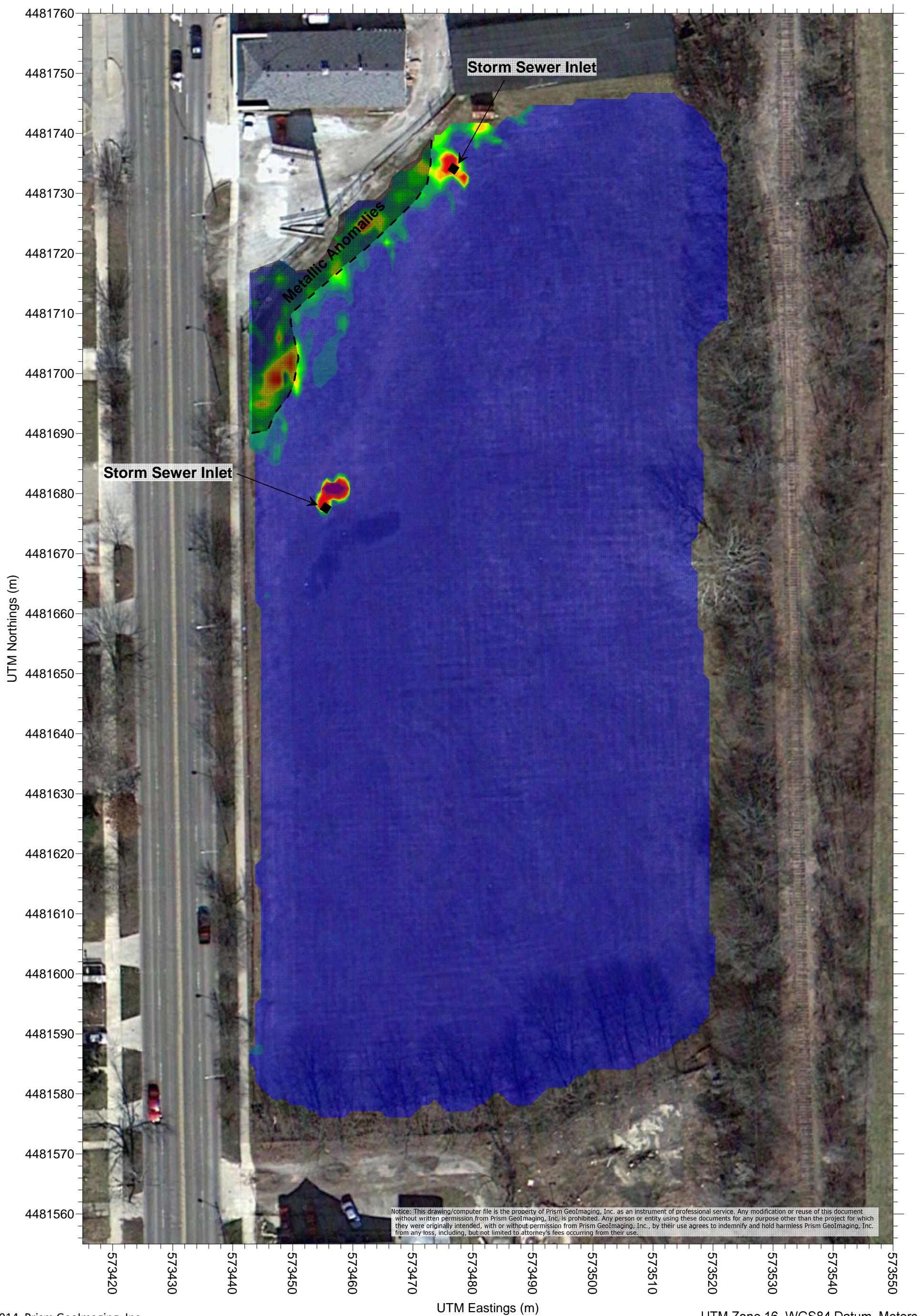


Figure 2
EM61 Channel Three Map
All Metal Within Detection Limits

Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008



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N
Scale in Feet
0 10 20 30 40
1" = 50'

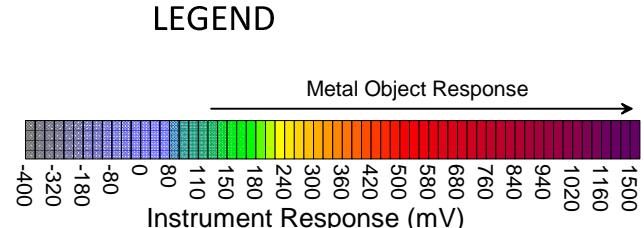
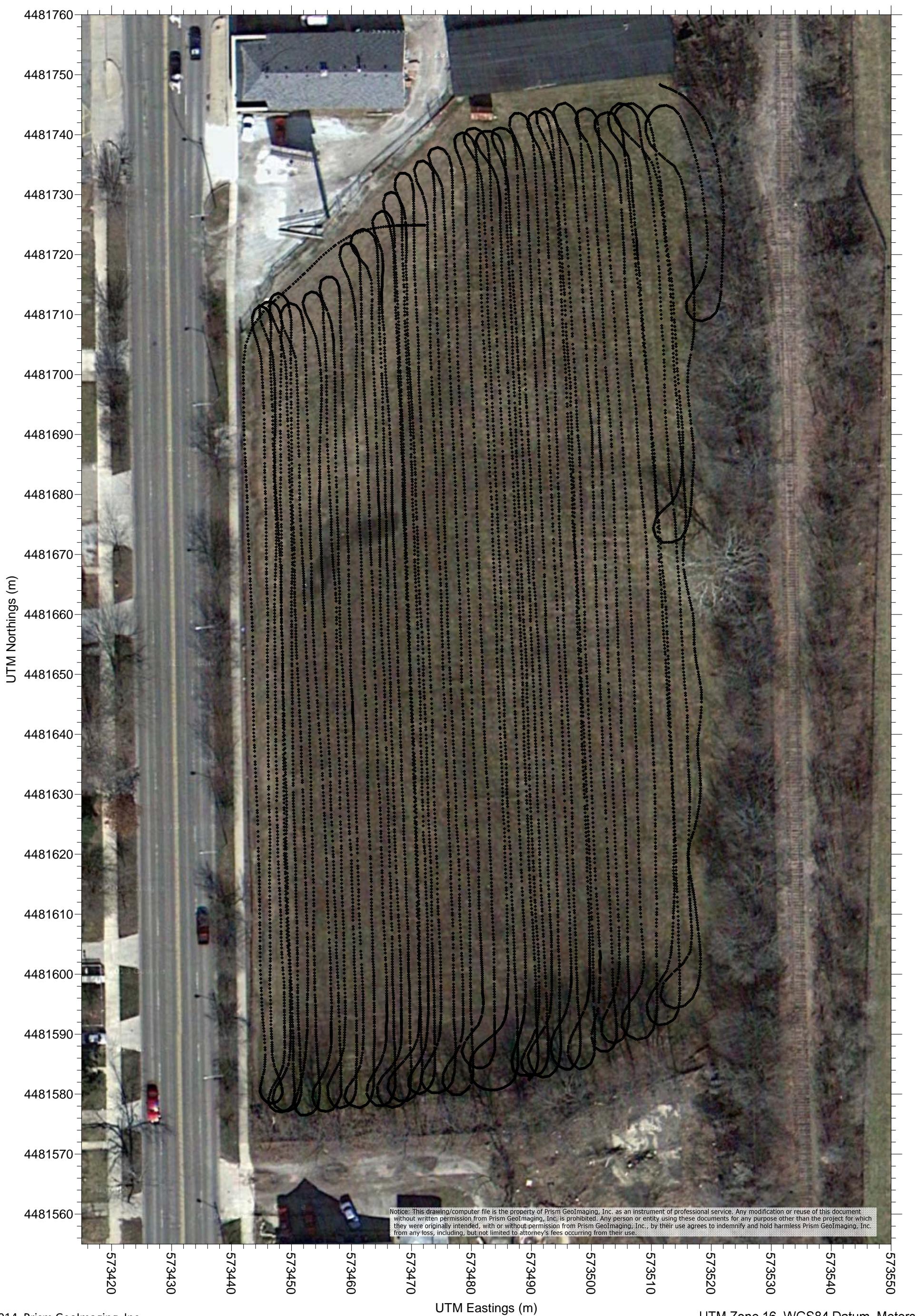


Figure 3

EM61 Channel Difference Map
Predominantly Deeper Metal Only

Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008



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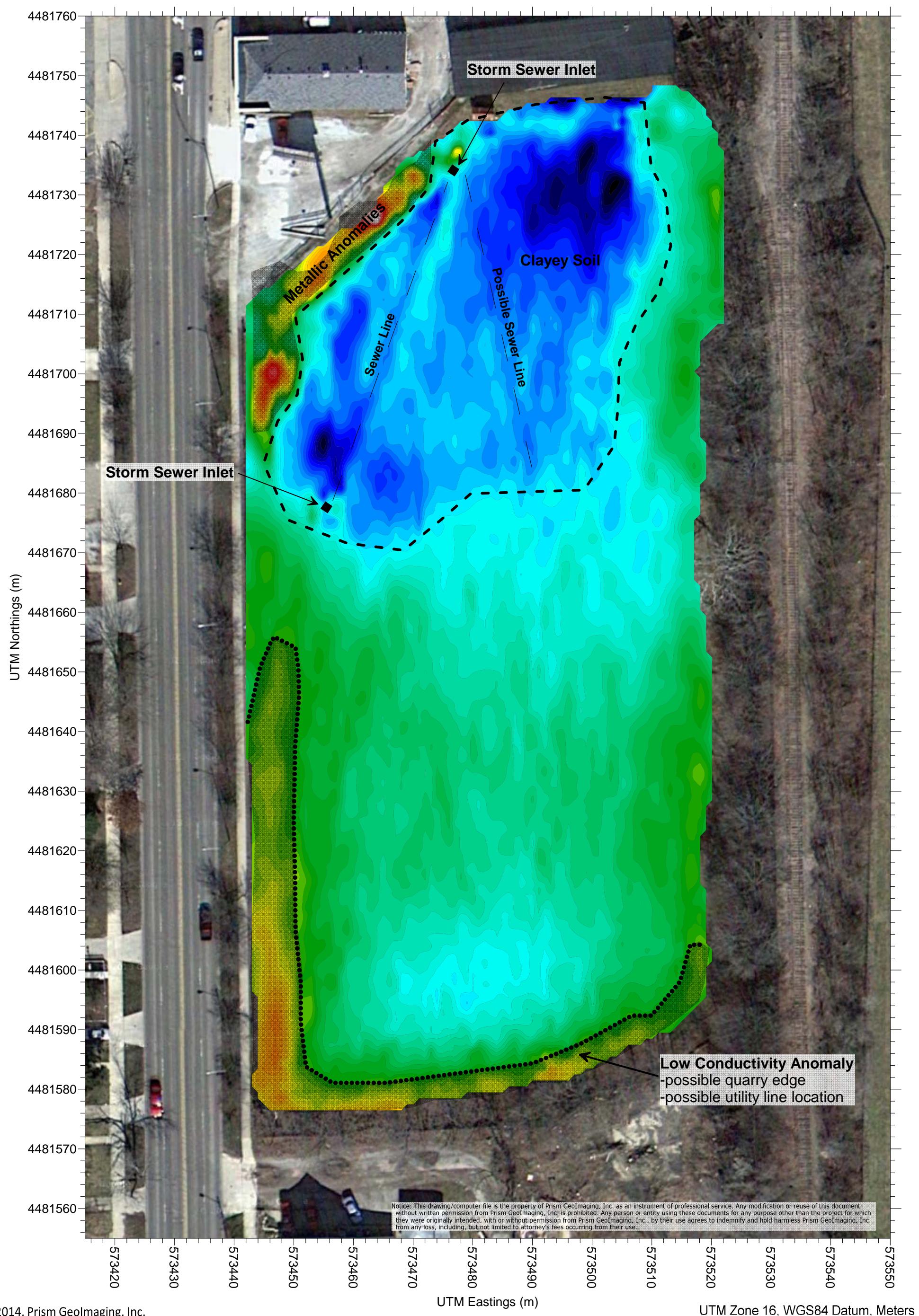
Scale in Feet
0 10 20 30 40
1" = 50'

LEGEND

Figure 4

Site Layout and EM31 Data Coverage

Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008

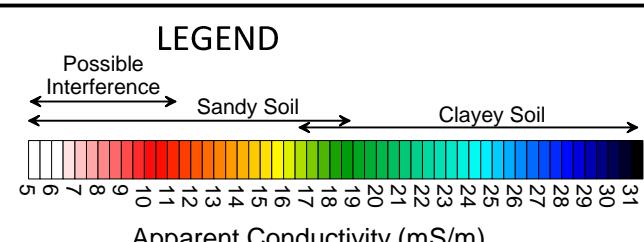


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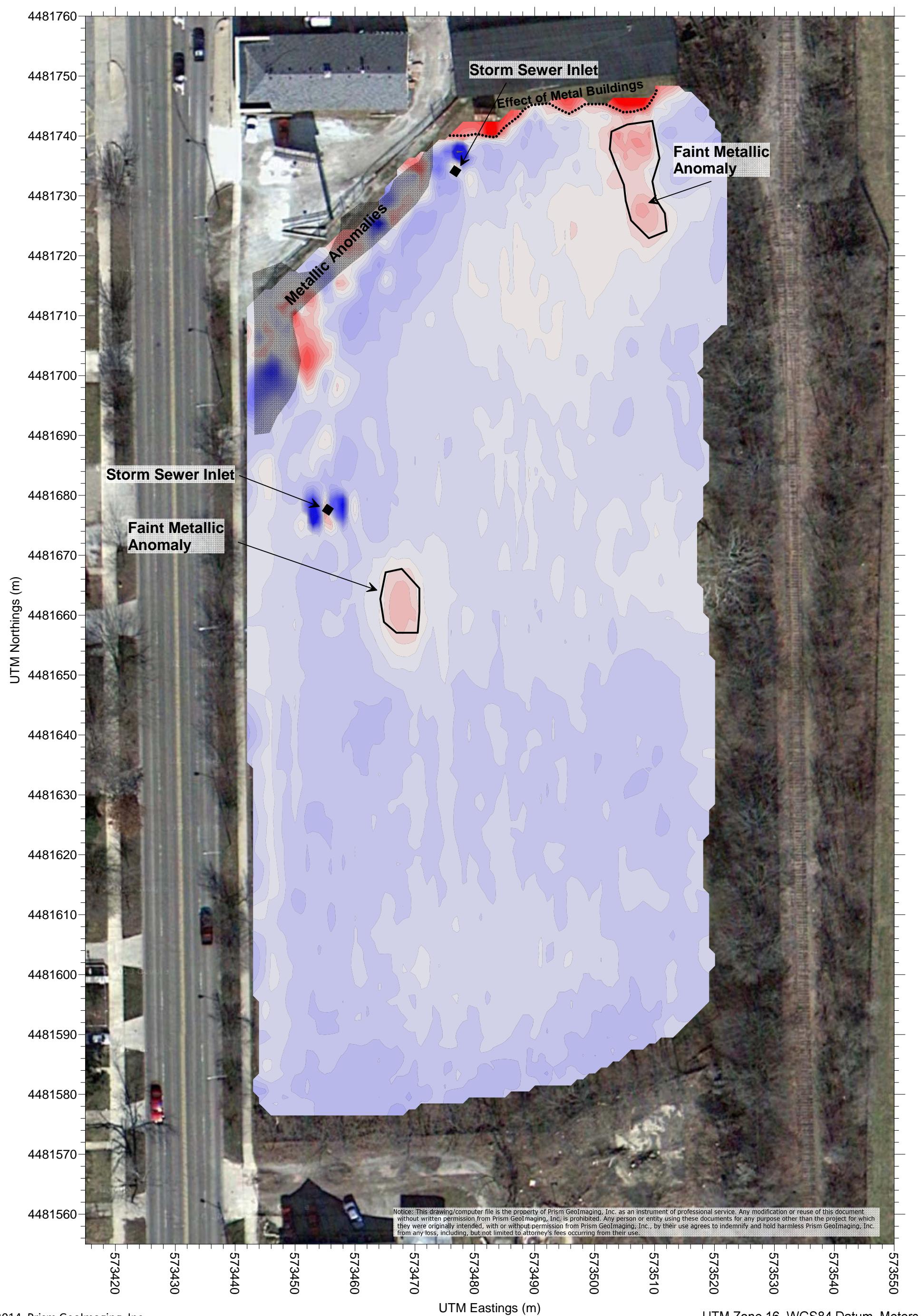
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Scale in Feet
0 10 20 30 40
1" = 50'



EM31 Conductivity Map

Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008

Figure 5



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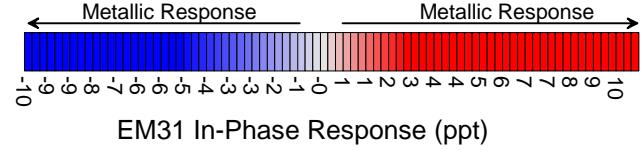


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Scale in Feet
0 10 20 30 40
1" = 50'

LEGEND

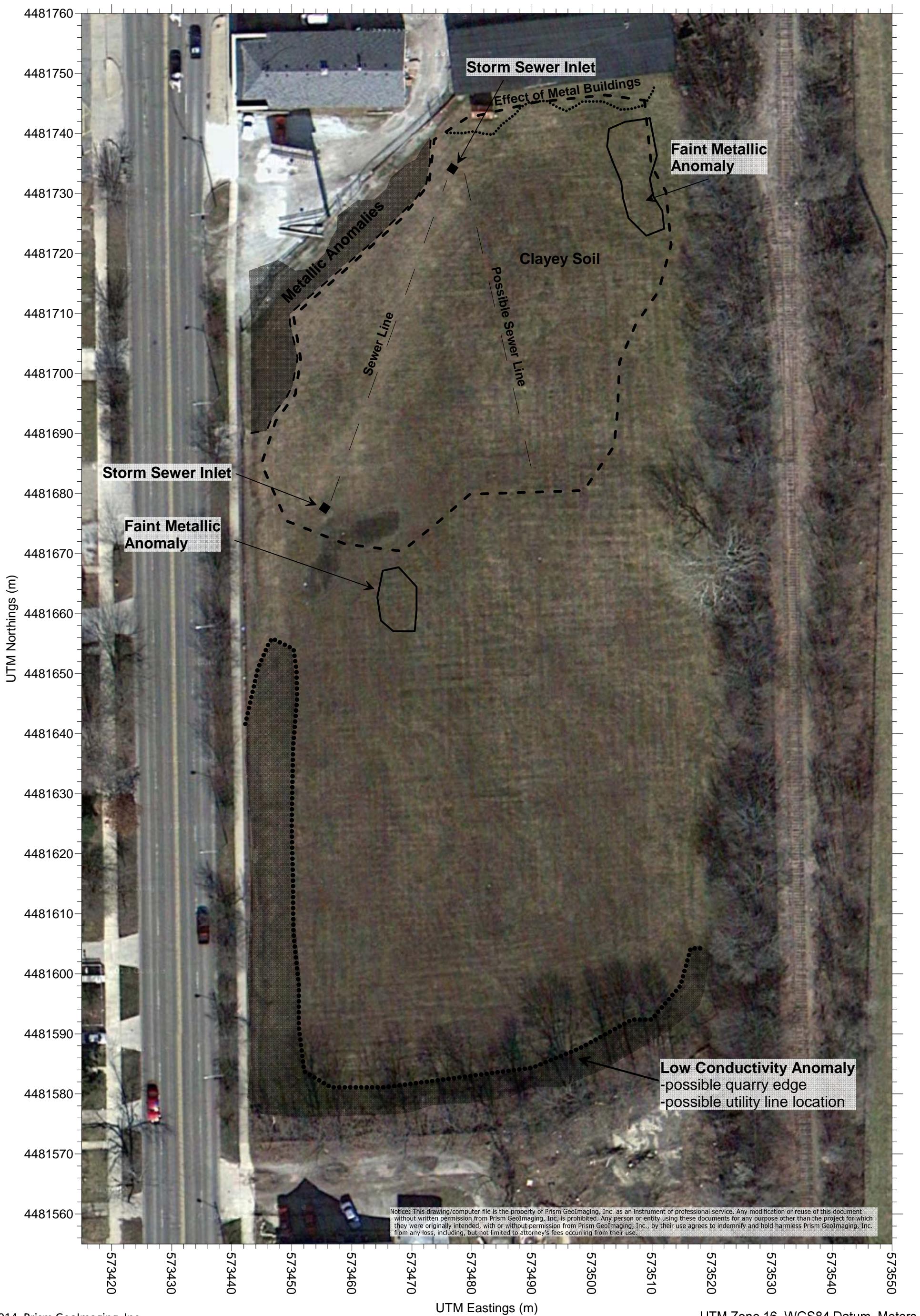


EM31 In-Phase Response (ppt)

Site Layout And Data Coverage

Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008

Figure 6



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Scale in Feet
0 10 20 30 40
1" = 50'

LEGEND

Figure 7

Site Layout And Data Coverage

Cabot Corporation Property
Kokomo, Indiana
Prism Project No. 00-059-008

APPENDIX C:
SOIL BORING LOGS



soil and materials engineers, inc.
michigan, ohio and indiana

BORING SB 1

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

PROJECT NUMBER: 067021.00.003.006

CLIENT: Kokomo Coalition

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

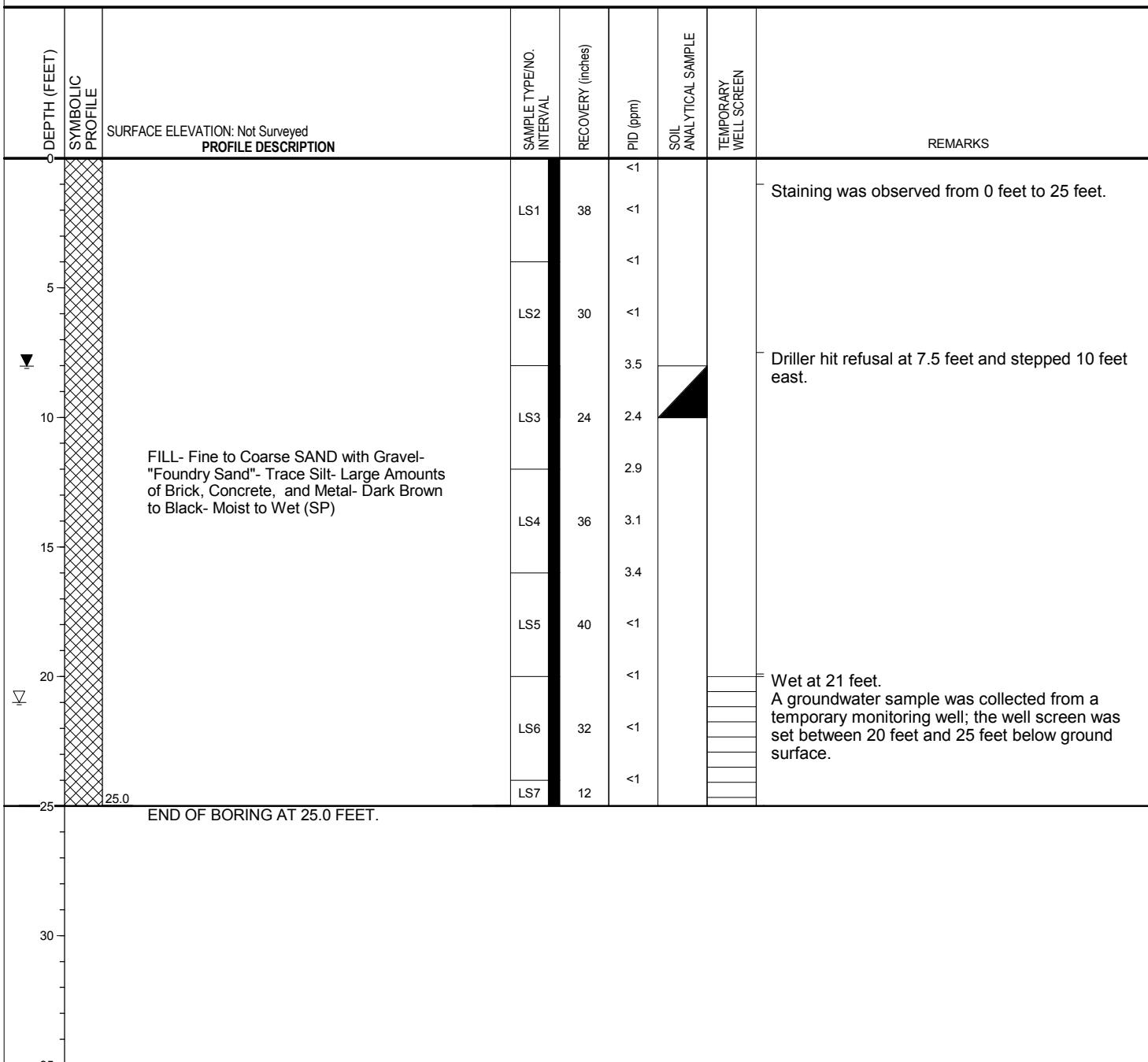
BORING METHOD: Direct Push

OPERATOR: SCS

RIG NO.: Geoprobe

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted.
DEPTH (FT)		
▽ DURING BORING:	21.0	
▽ AT END OF BORING:	8.0	
BACKFILL METHOD:	Auger Cuttings & Bentonite Chips	



PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

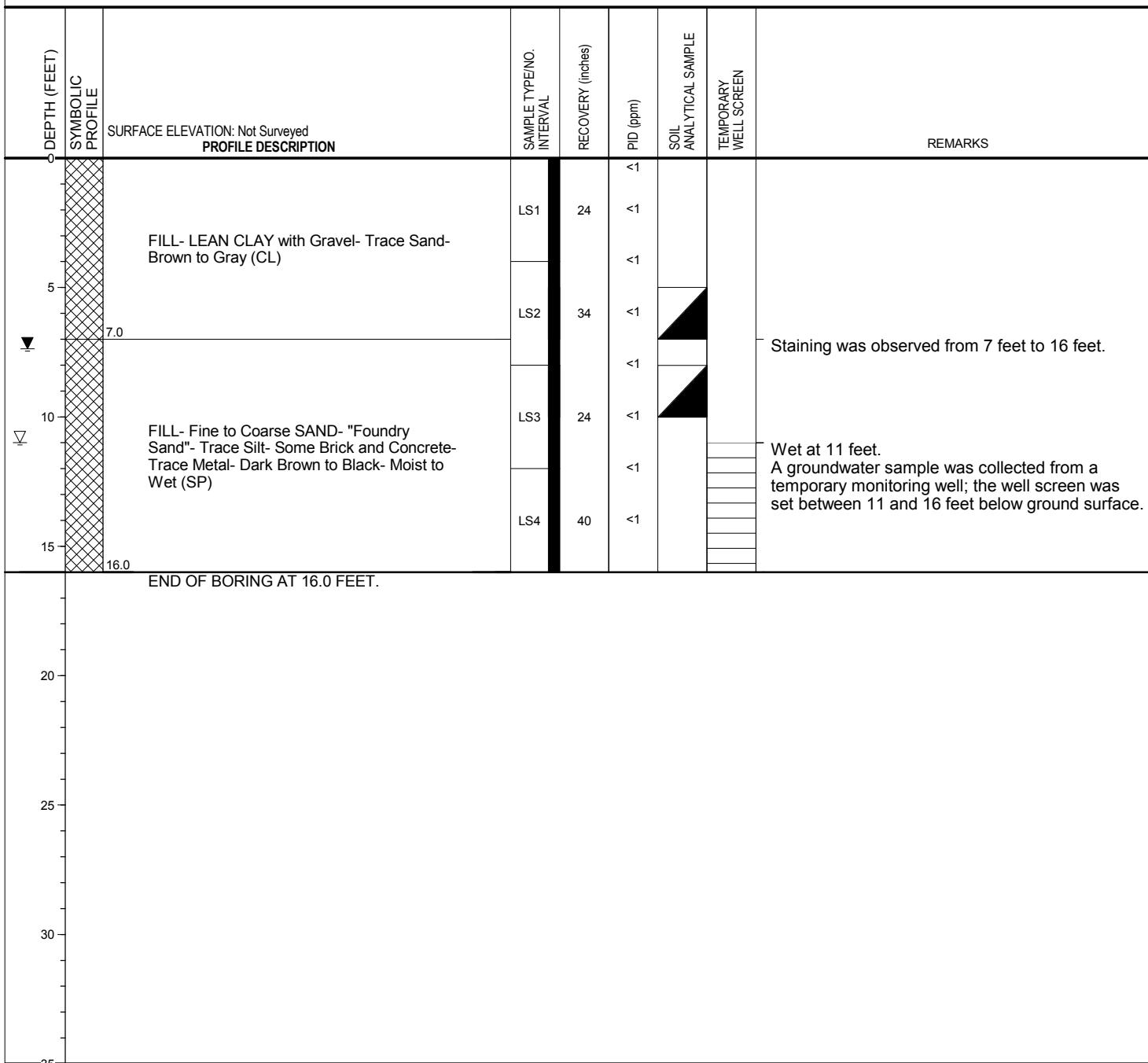
OPERATOR: SCS

RIG NO.: Geoprobe

BORING METHOD: Direct Push

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT)

▽ DURING BORING: 11.0

▼ AT END OF BORING: 7.4

BACKFILL METHOD: Bentonite Chips

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.

2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted.



soil and materials engineers, inc.
michigan, ohio and indiana

BORING SB 3

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

PROJECT NUMBER: 067021.00.003.006

CLIENT: Kokomo Coalition

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

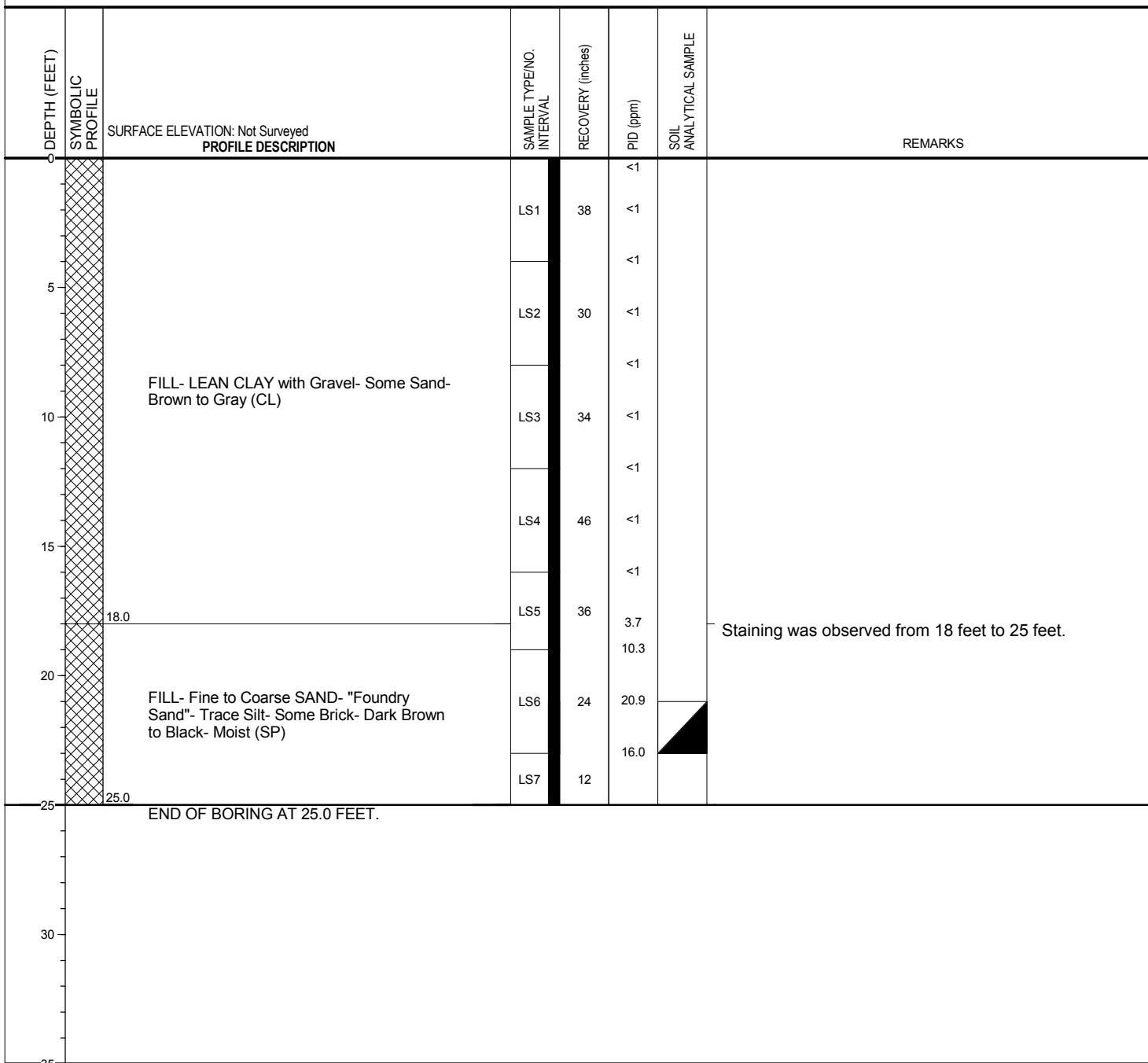
BORING METHOD: Direct Push

OPERATOR: SCS

RIG NO.: Geoprobe

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Auger Cuttings & Bentonite Chips

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted.



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BORING SB 4

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

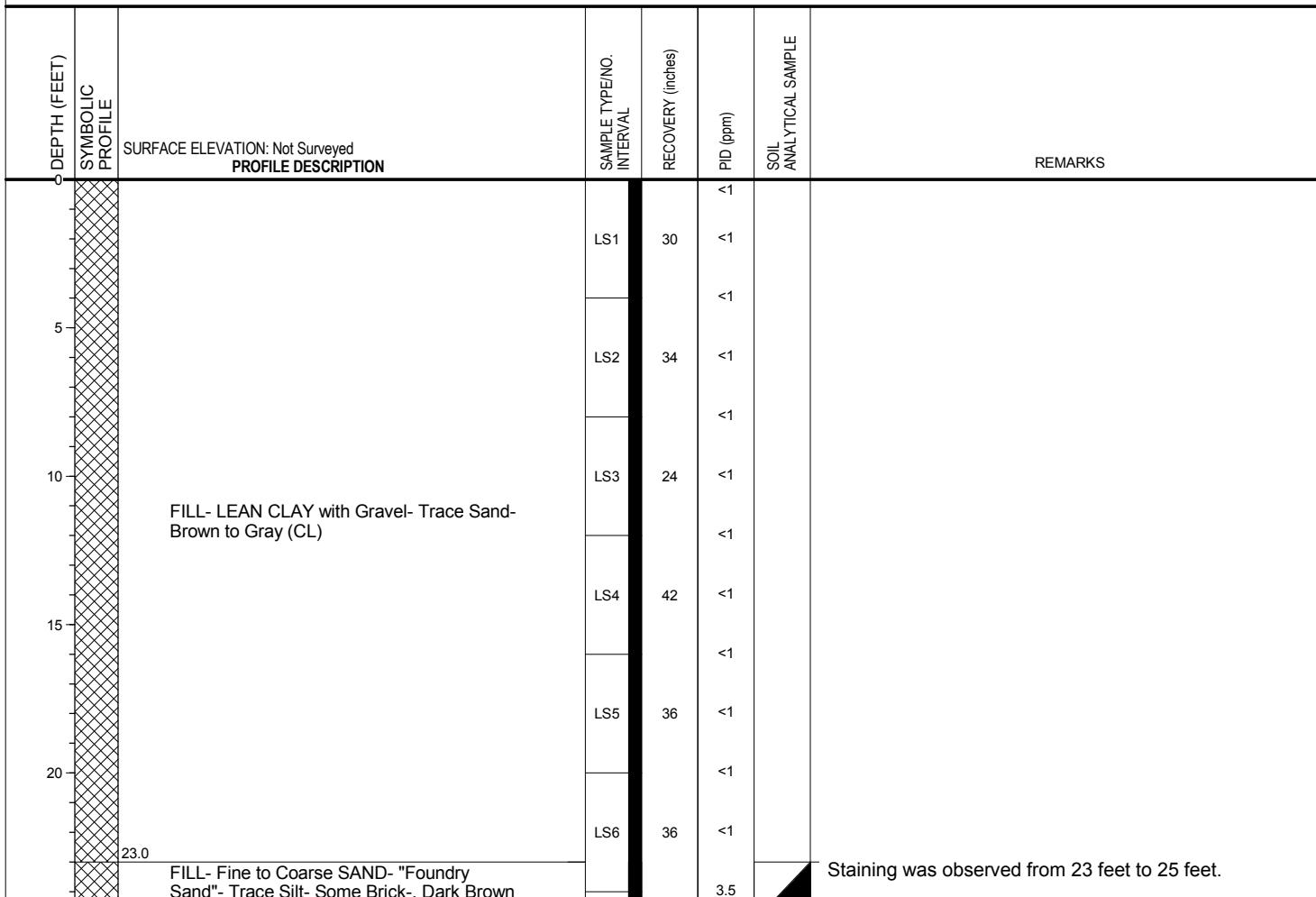
OPERATOR: SCS

RIG NO.: Geoprobe

BORING METHOD: Direct Push

LOGGED BY: L W

CHECKED BY: CGS



END OF BORING AT 25.0 FEET.

GROUNDWATER & BACKFILL INFORMATION		NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted.	
GROUNDWATER WAS NOT ENCOUNTERED			
BACKFILL METHOD:	Auger Cuttings & Bentonite Chips		



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michigan, ohio and indiana

BORING SB 5

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

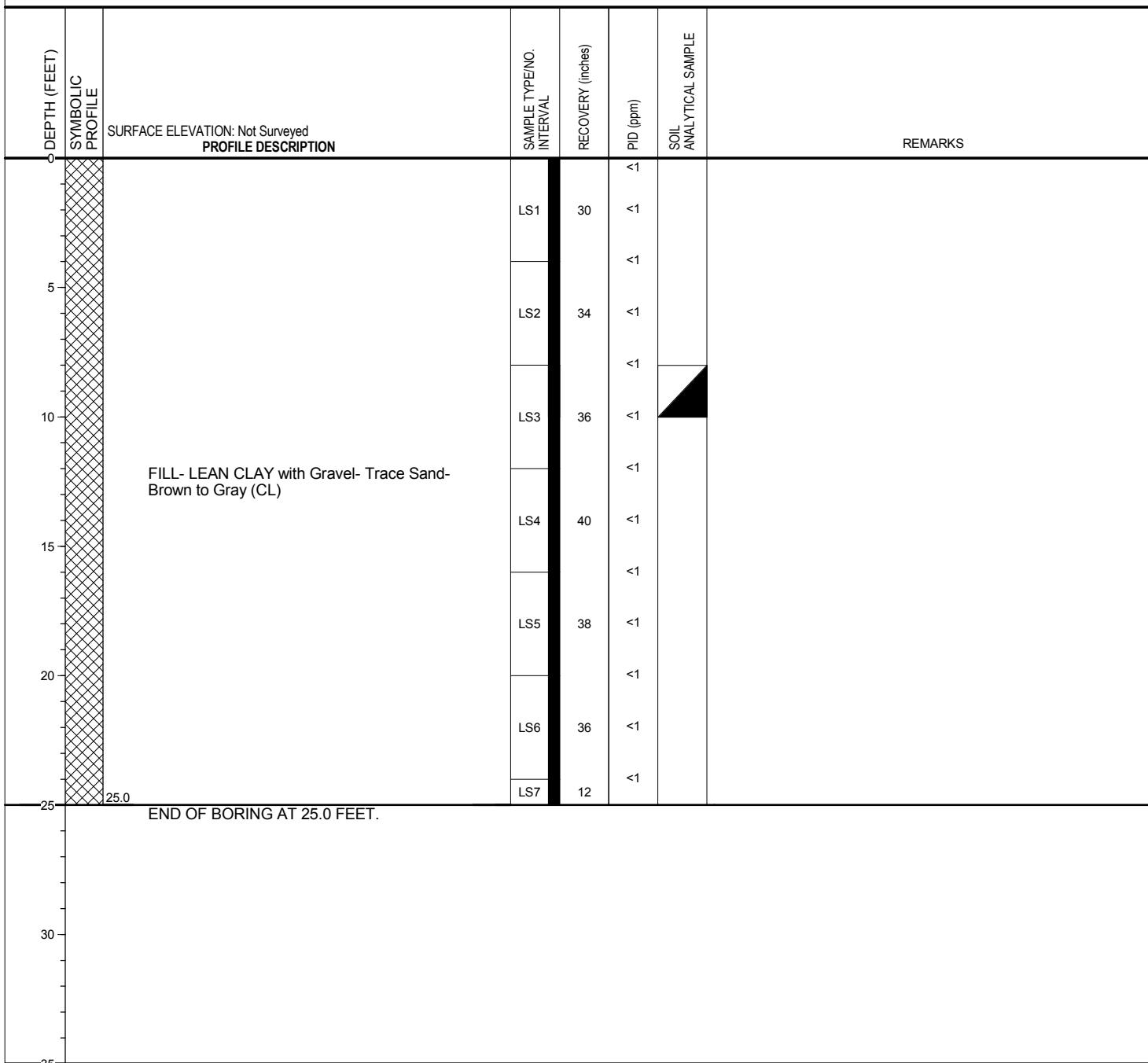
OPERATOR: SCS

RIG NO.: Geoprobe

BORING METHOD: Direct Push

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Auger Cuttings

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



soil and materials engineers, inc.
michigan, ohio and indiana

BORING SB 6

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

PROJECT NUMBER: 067021.00.003.006

CLIENT: Kokomo Coalition

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

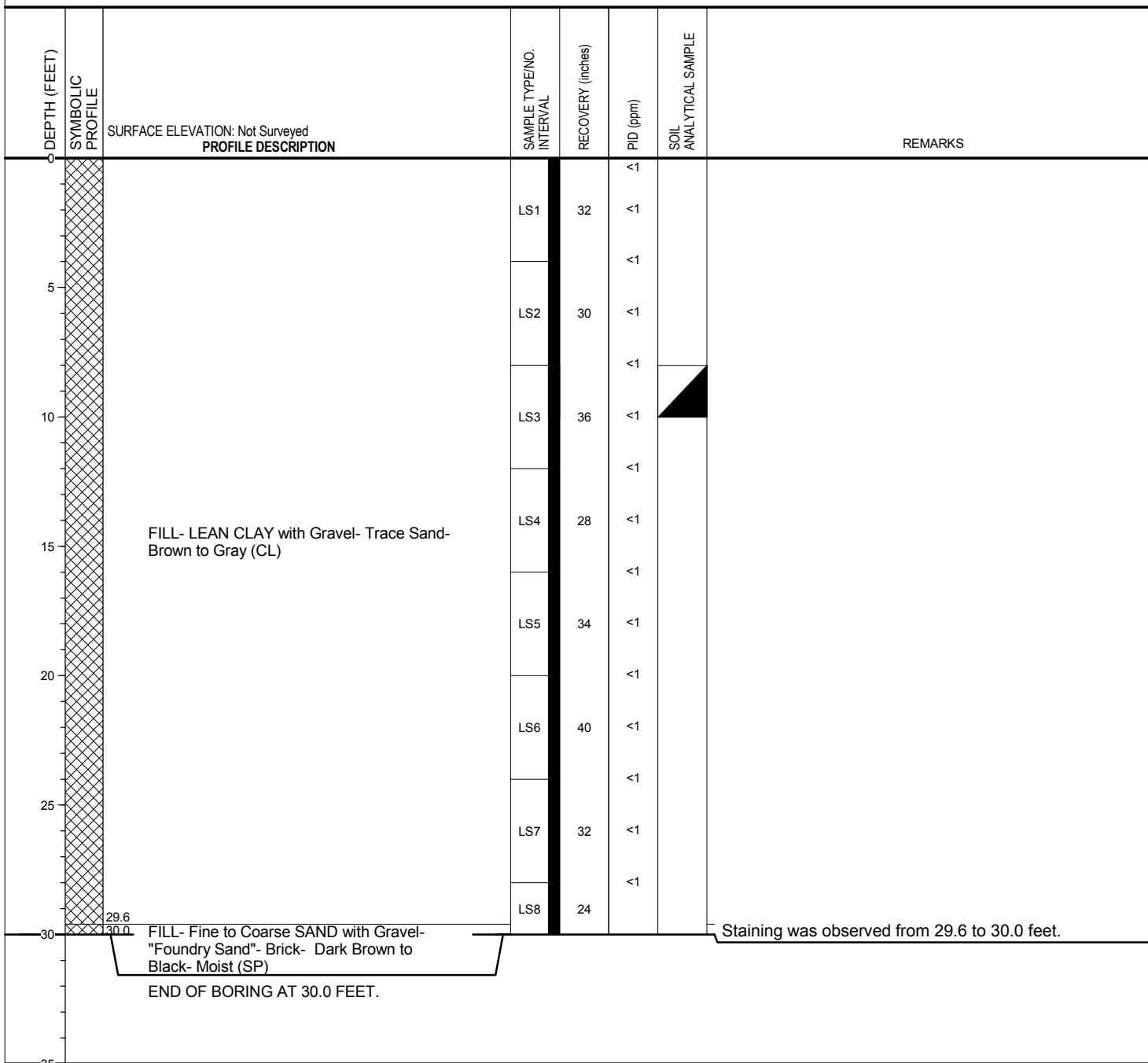
BORING METHOD: Direct Push

OPERATOR: SCS

RIG NO.: Geoprobe

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Auger Cuttings

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted.



soil and materials engineers, inc.
michigan, ohio and indiana

BORING SB 7

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

PROJECT NUMBER: 067021.00.003.006

CLIENT: Kokomo Coalition

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

BORING METHOD: Direct Push

OPERATOR: SCS

RIG NO.: Geoprobe

LOGGED BY: L W

CHECKED BY: CGS

DEPTH (FEET)	SYMBOLIC PROFILE	SURFACE ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	REMARKS
0			LS1	30	<1		
5			LS2	36	<1		
10			LS3	34	<1	<1	
15		FILL- LEAN CLAY with Gravel- Trace Sand- Brown to Gray (CL)	LS4	46	<1	<1	
20			LS5	28	<1	<1	
25			LS6	38	<1	<1	
30			LS7	32	<1	<1	
32.0		FILL- Fine to Coarse SAND with Gravel- "Foundry Sand"- Brick- Dark Brown to Black- Moist (SP)	LS8	36	<1		Staining was observed from 30 to 32 feet.
END OF BORING AT 32.0 FEET.							
-35							

GROUNDWATER & BACKFILL INFORMATION	NOTES:
GROUNDWATER WAS NOT ENCOUNTERED	1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted.
BACKFILL METHOD: Auger Cuttings	



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BORING SB 8

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

PROJECT NUMBER: 067021.00.003.006

CLIENT: Kokomo Coalition

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

DATE STARTED: 5/29/14

COMPLETED: 5/29/14

BORING METHOD: Direct Push

OPERATOR: SCS

RIG NO.: Geoprobe

LOGGED BY: L W

CHECKED BY: CGS

DEPTH (FEET)	SYMBOLIC PROFILE	SURFACE ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE	REMARKS
0			LS1	34	<1		
5			LS2	32	<1		
10			LS3	28	<1	<1	
15		FILL- LEAN CLAY with Gravel- Trace Sand- Brown to Gray (CL)	LS4	36	<1	<1	
20			LS5	38	<1	<1	
25			LS6	36	<1	<1	
30			LS7	38	<1	<1	
32.0		FILL- Fine to Coarse SAND with Gravel- "Foundry Sand"- Brick- Dark Brown to Black- Moist (SP)	LS8	40	<1	<1	Staining was observed from 30 to 32 feet.
END OF BORING AT 32.0 FEET.							
-35							

GROUNDWATER & BACKFILL INFORMATION	NOTES:
GROUNDWATER WAS NOT ENCOUNTERED	1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design. 2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 3. No odors were noted.
BACKFILL METHOD: Auger Cuttings	



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TEST PIT TP 1

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

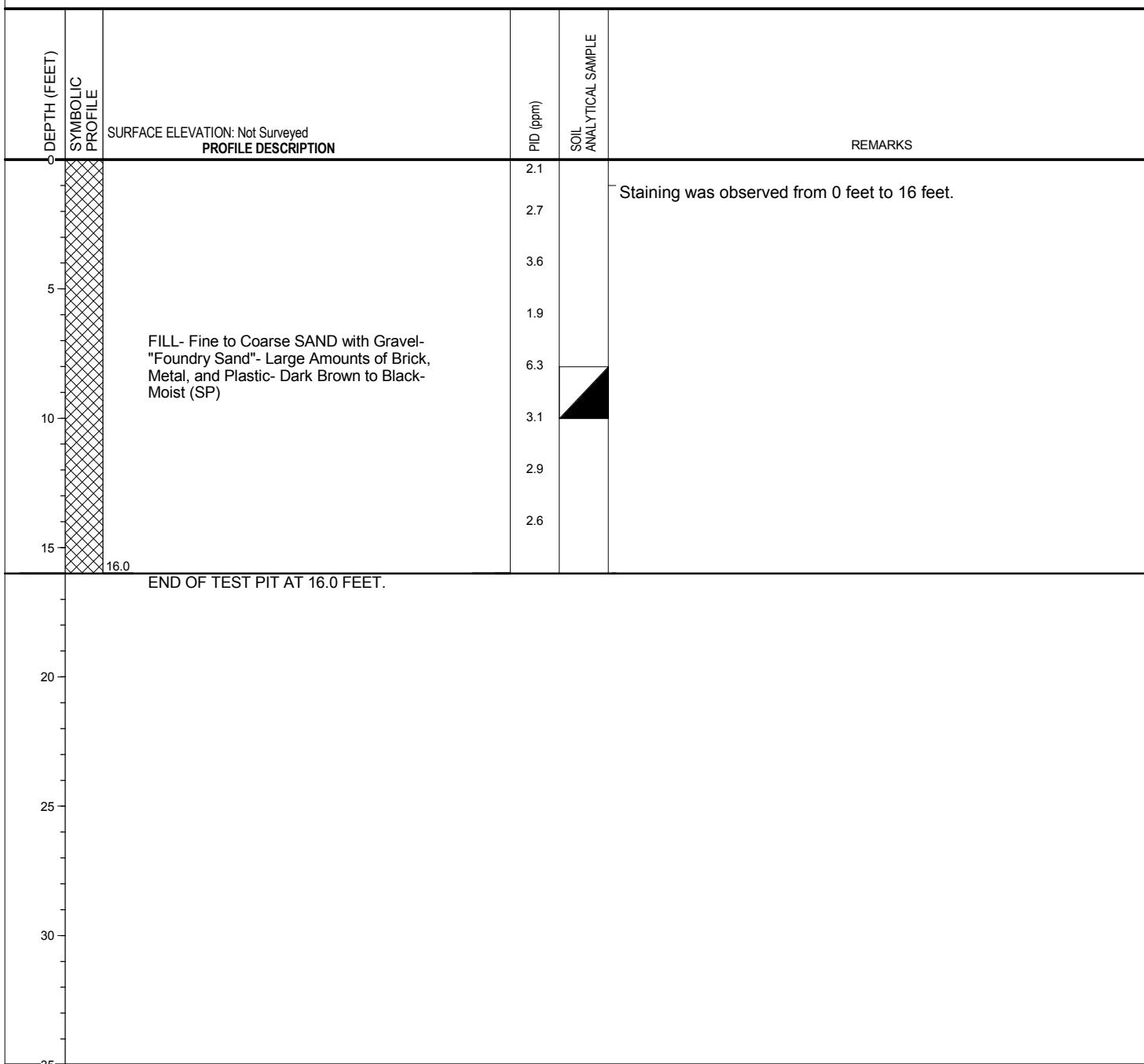
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted.



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TEST PIT TP 2

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

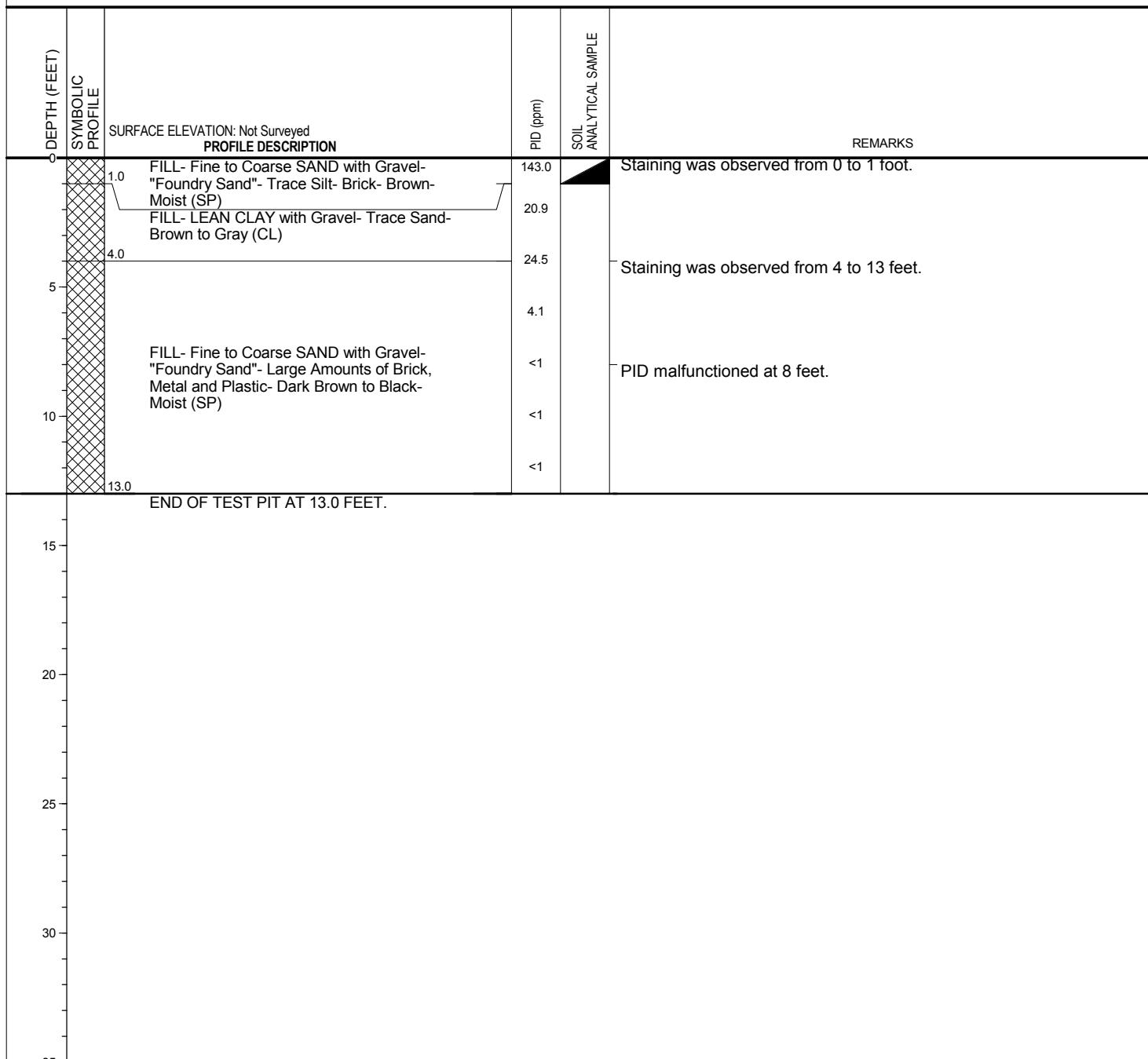
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted.



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TEST PIT TP 3

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

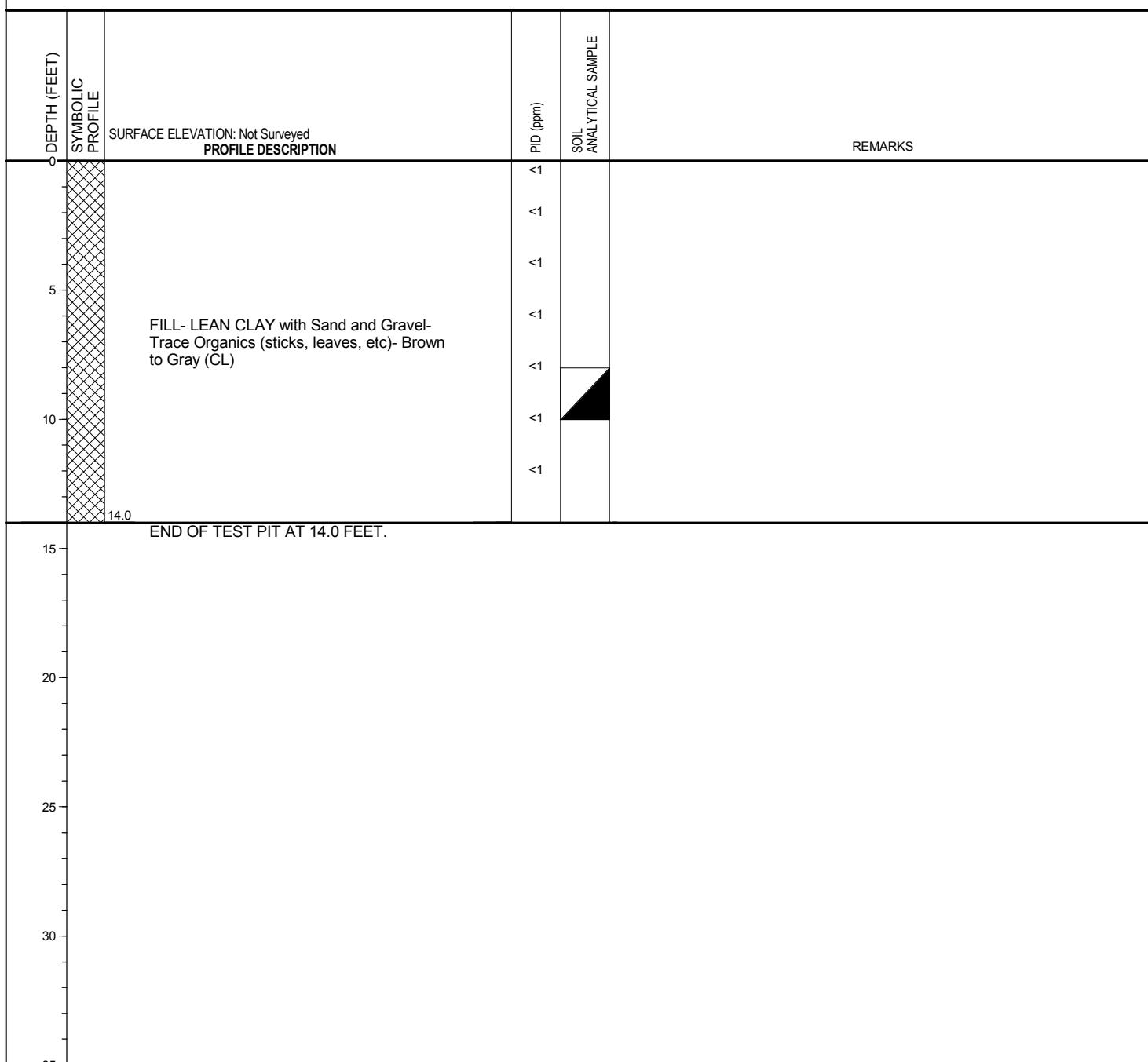
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



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TEST PIT TP 4

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

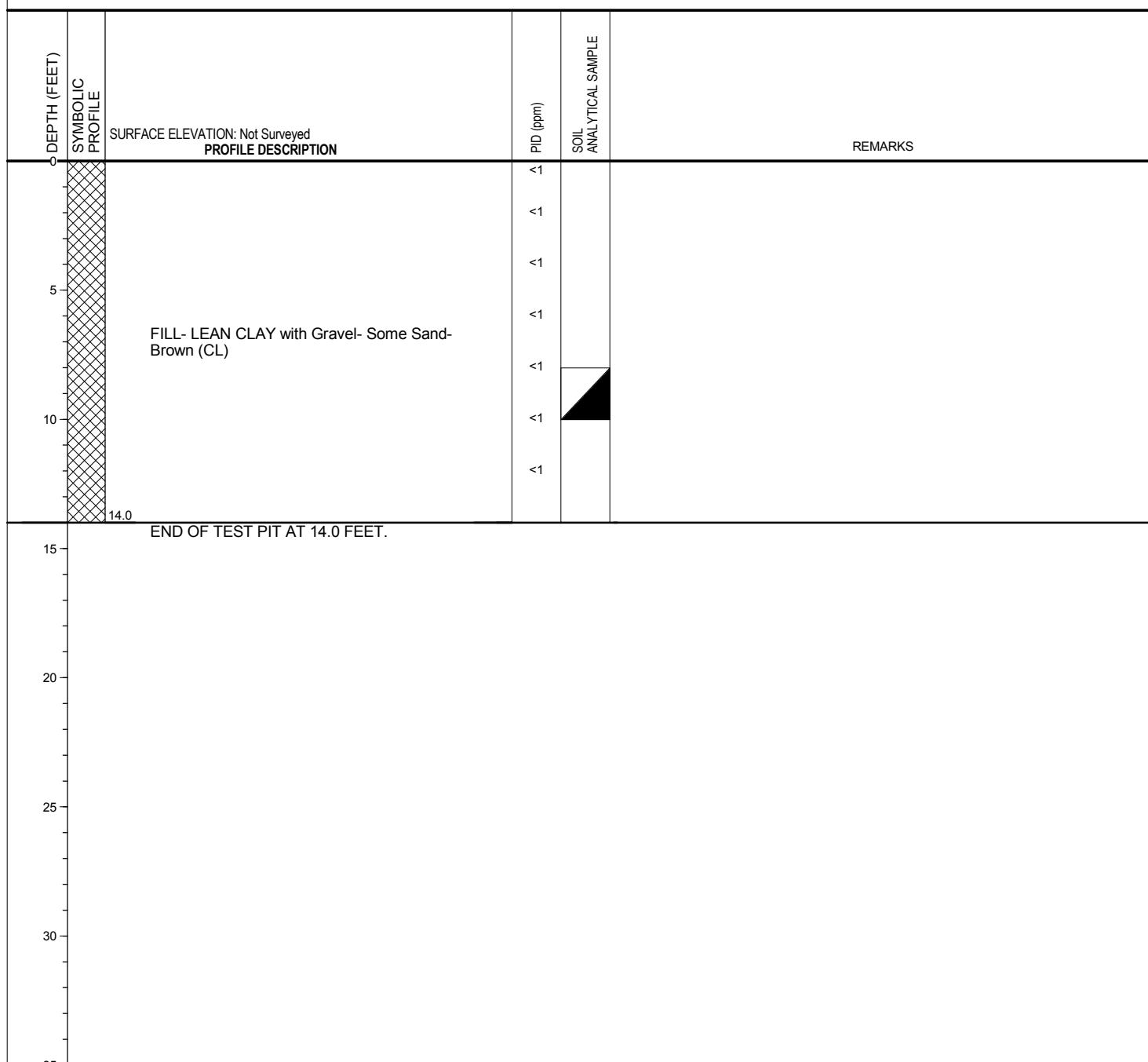
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



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TEST PIT TP 5

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

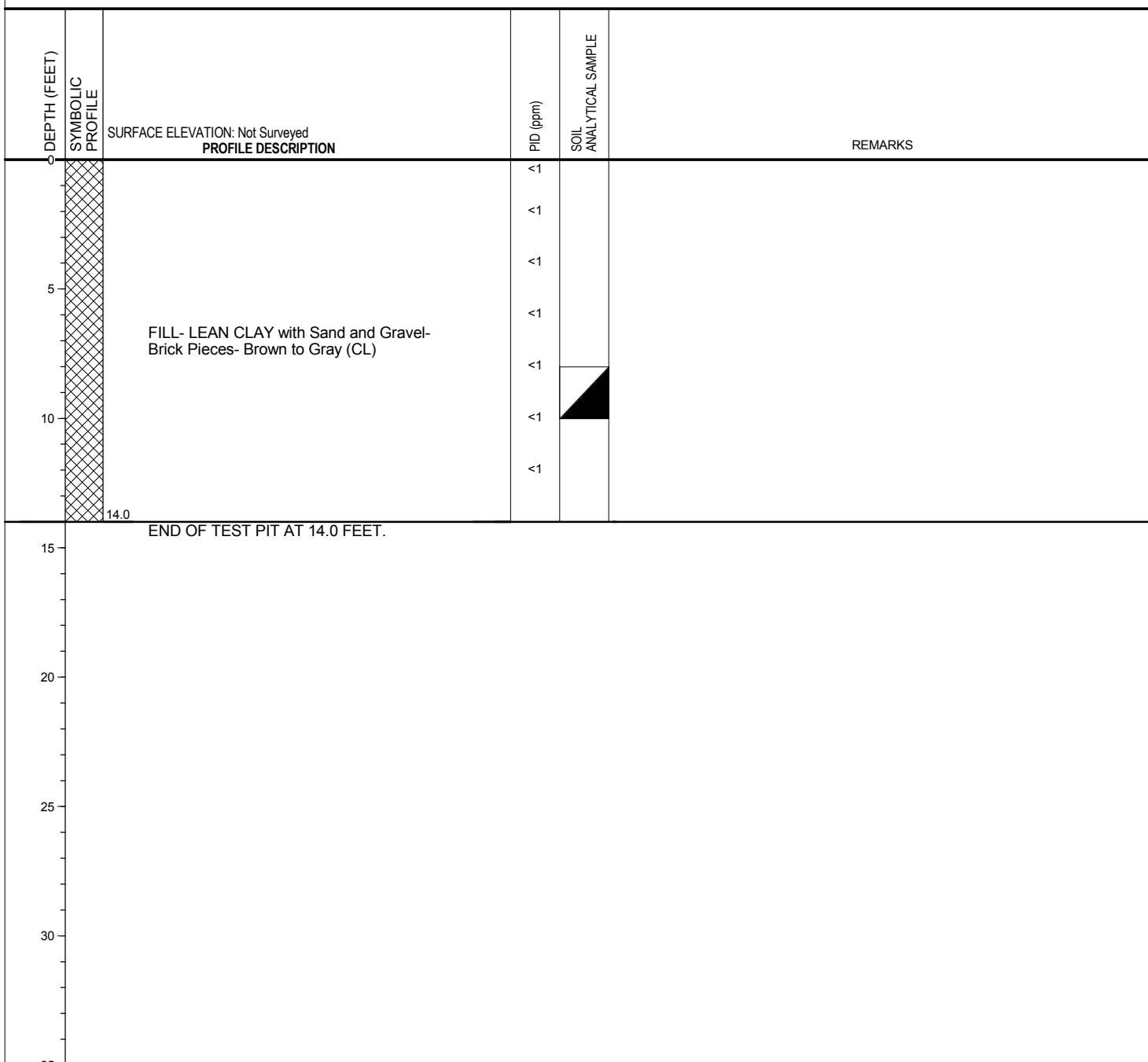
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



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TEST PIT TP 6

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

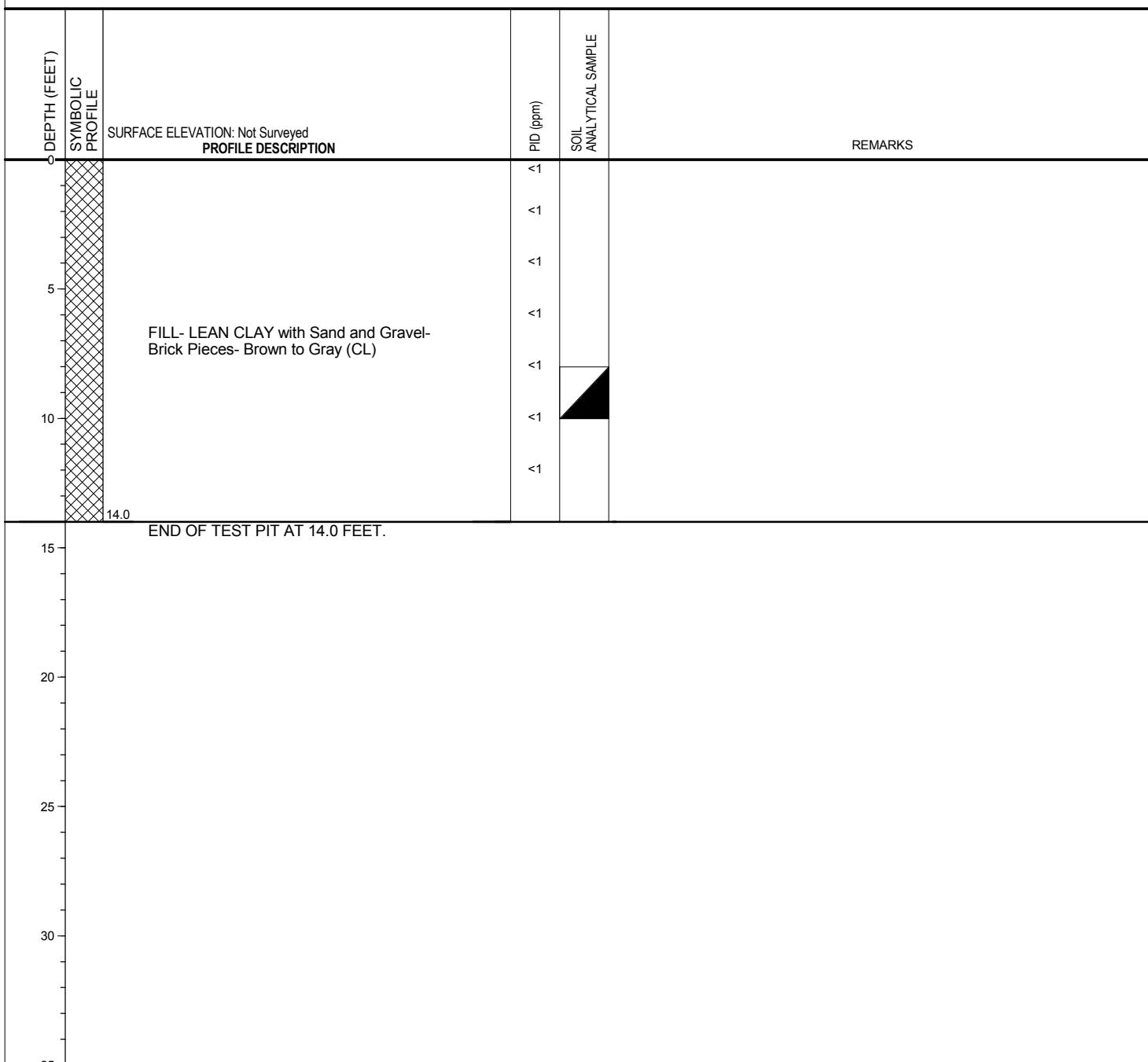
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



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TEST PIT TP 7

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

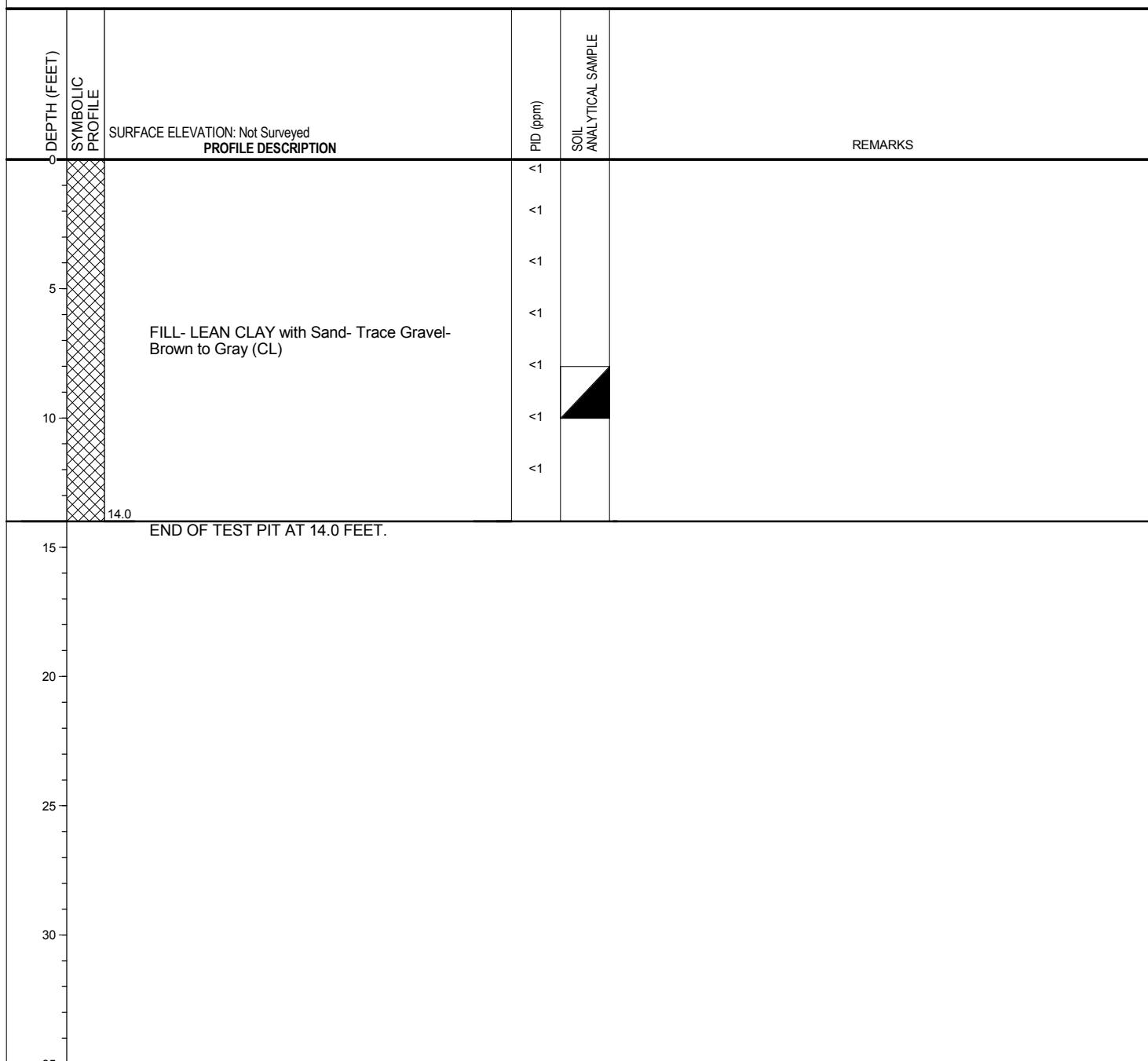
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



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TEST PIT TP 8

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

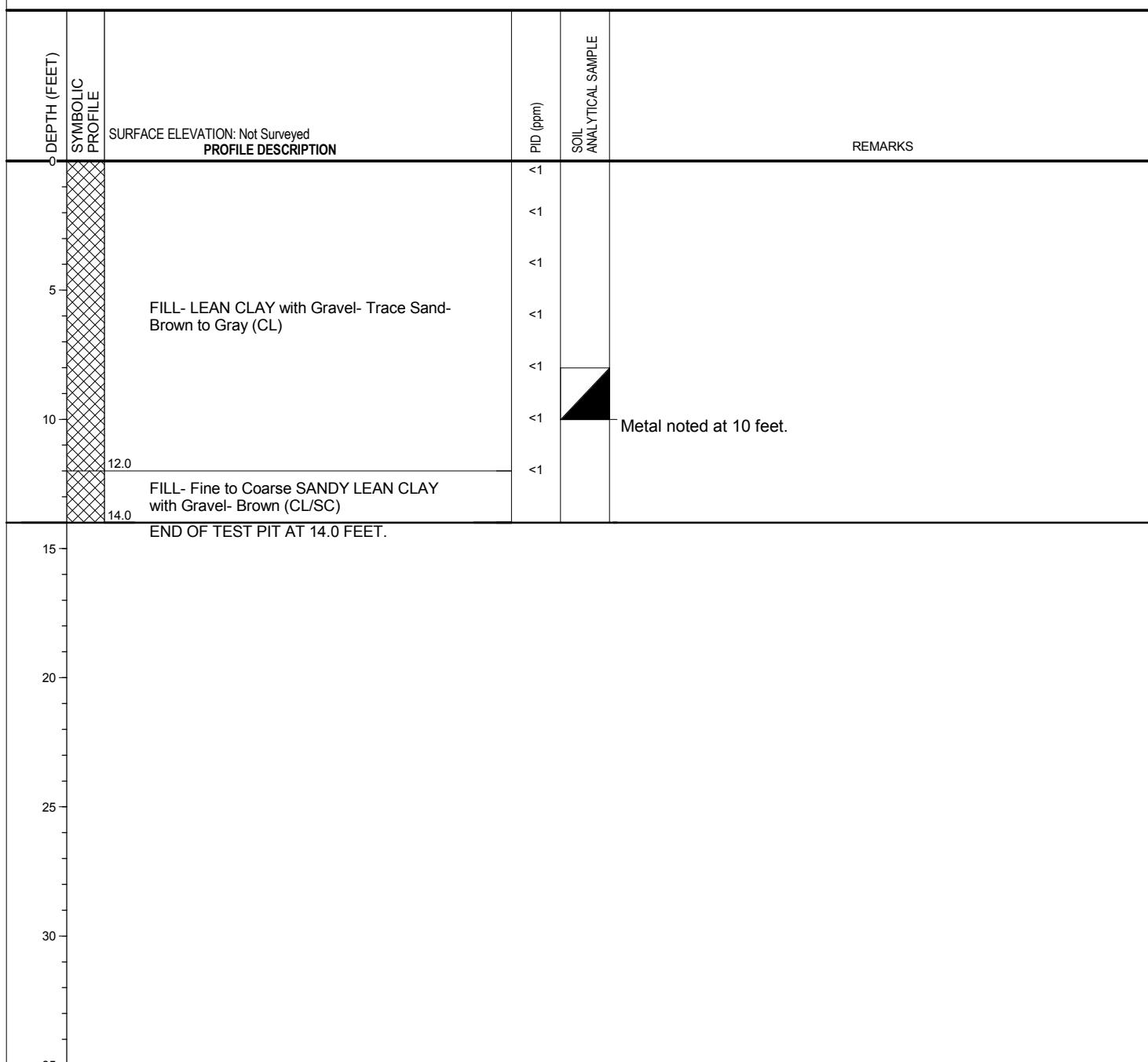
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



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TEST PIT TP 9

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

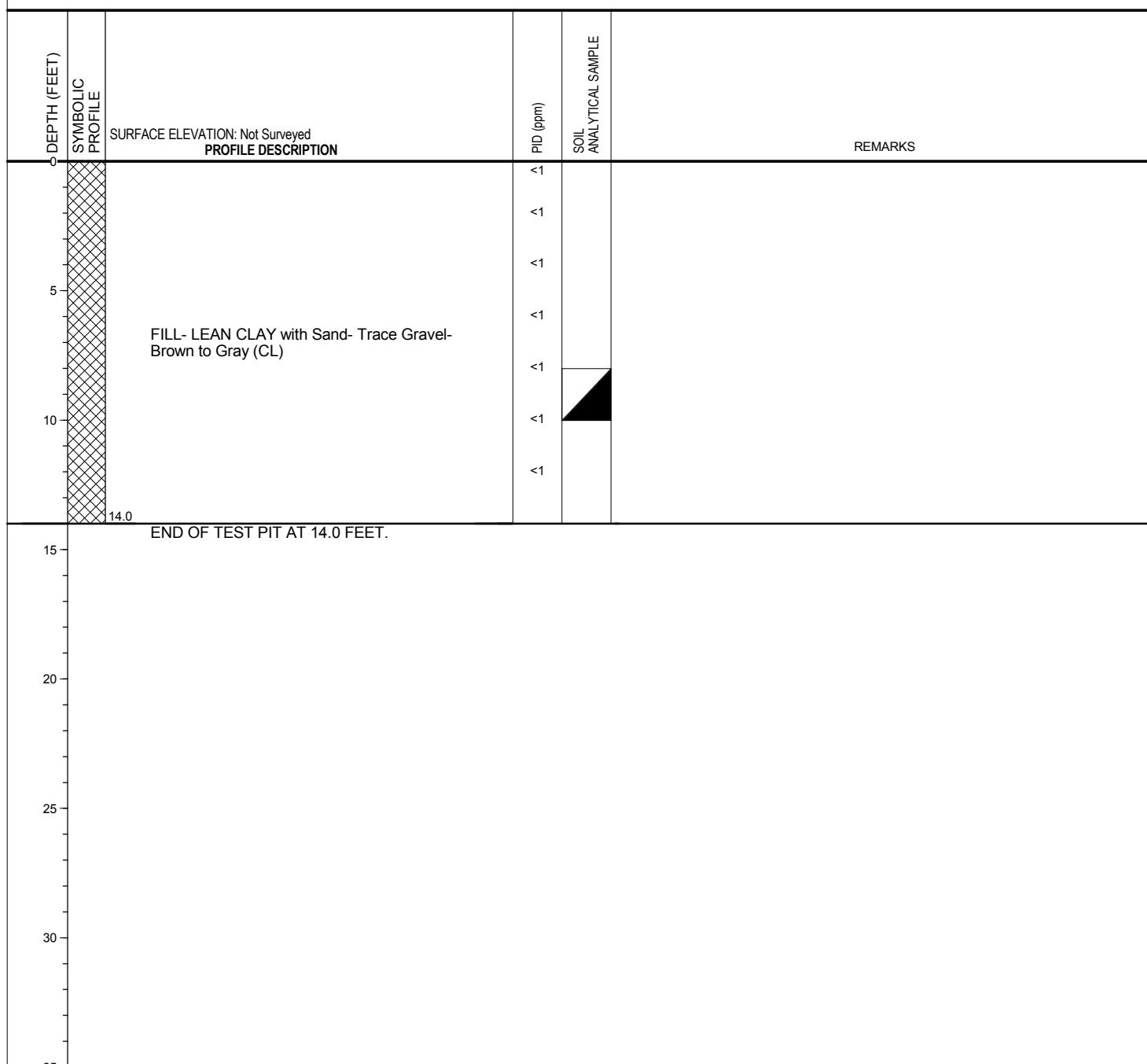
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.



soil and materials engineers, inc.
michigan, ohio and indiana

TEST PIT TP10

PAGE 1 OF 1

PROJECT NAME: Former Cabot Corp Property

CLIENT: Kokomo Coalition

DATE STARTED: 5/28/14

COMPLETED: 5/28/14

PROJECT NUMBER: 067021.00.003.006

PROJECT LOCATION: South Washington Street, Kokomo, Indiana

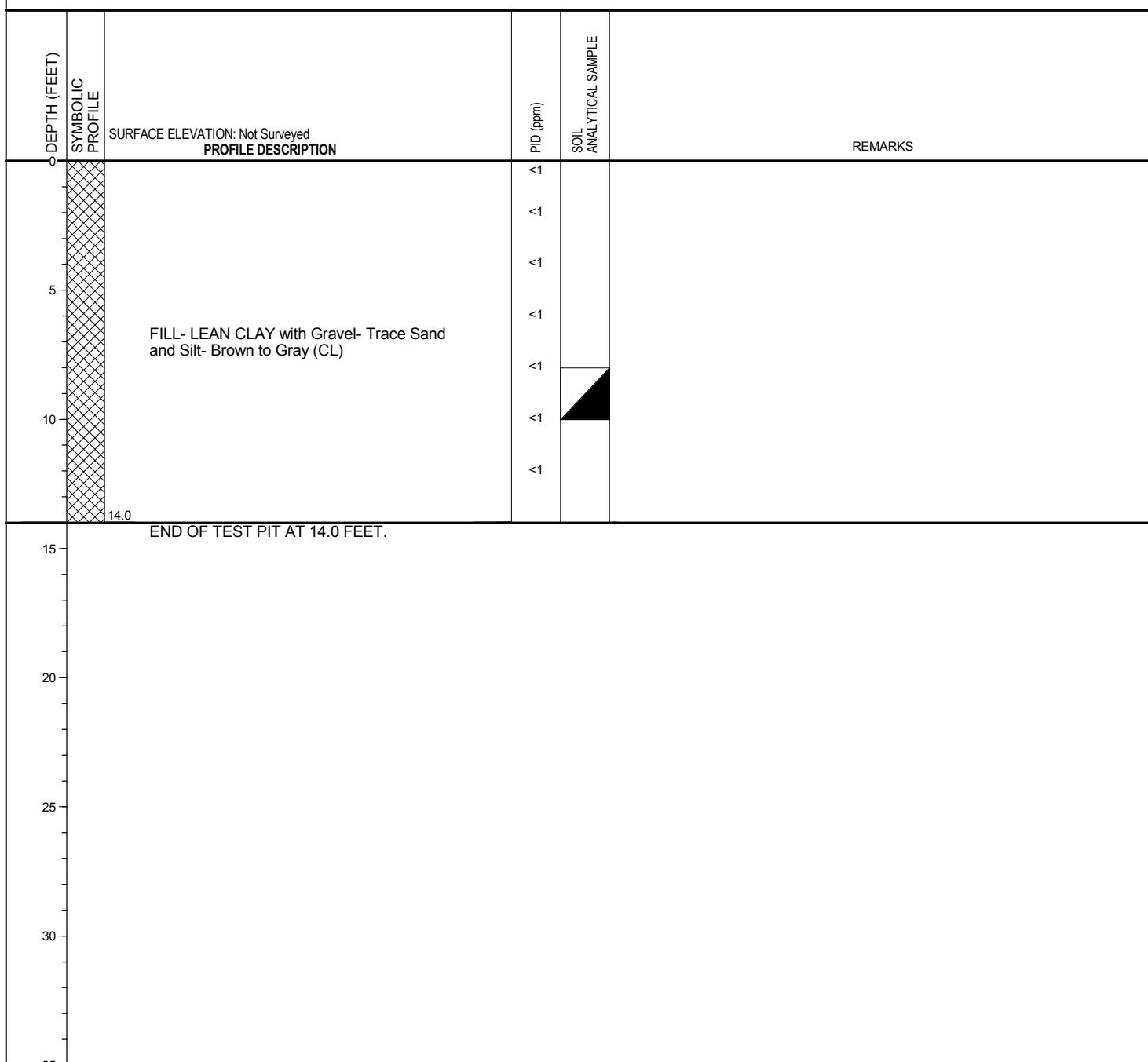
CONTRACTOR: SCS

EQUIPMENT: Excavator

EXCAVATION METHOD: Test Pit

LOGGED BY: L W

CHECKED BY: CGS



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils

NOTES: 1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No odors were noted, and no staining was observed.
4. DUP01 was collected at this location.

APPENDIX D

LABORATORY DATA REPORTS

June 13, 2014

Mr. Chris Shaw
SME, Inc.
5847 W 74th Street
Indianapolis, IN 46278

RE: Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247

Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5098489001	TP1(8-10')	Solid	05/28/14 16:20	05/29/14 07:30
5098489002	TP2(0-1')	Solid	05/28/14 17:12	05/29/14 07:30
5098489003	TP3(8-10')	Solid	05/28/14 15:15	05/29/14 07:30
5098489004	TP4(8-10')	Solid	05/28/14 14:36	05/29/14 07:30
5098489005	TP5(8-10')	Solid	05/28/14 13:21	05/29/14 07:30
5098489006	TP6(8-10')	Solid	05/28/14 14:00	05/29/14 07:30
5098489007	TP7(8-10')	Solid	05/28/14 11:53	05/29/14 07:30
5098489008	TP8(8-10')	Solid	05/28/14 12:35	05/29/14 07:30
5098489009	TP9(8-10')	Solid	05/28/14 10:41	05/29/14 07:30
5098489010	TP10(8-10')	Solid	05/28/14 09:46	05/29/14 07:30
5098489011	DUP01	Solid	05/28/14 08:00	05/29/14 07:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
5098489001	TP1(8-10')	EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
5098489002	TP2(0-1')	EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
5098489003	TP3(8-10')	EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
5098489004	TP4(8-10')	EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
5098489005	TP5(8-10')	EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
5098489006	TP6(8-10')	ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
5098489007	TP7(8-10')	Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
5098489008	TP8(8-10')	EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
5098489009	TP9(8-10')	EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
5098489010	TP10(8-10')	ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5098489011	DUP01	EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	JLZ	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP1(8-10') Lab ID: 5098489001 Collected: 05/28/14 16:20 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		2.3	1.1	20	06/02/14 14:50	06/05/14 14:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		2.3	1.1	20	06/02/14 14:50	06/05/14 14:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		2.3	1.1	20	06/02/14 14:50	06/05/14 14:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		2.3	1.1	20	06/02/14 14:50	06/05/14 14:24	53469-21-9	
PCB-1248 (Aroclor 1248)	4.5 mg/kg		2.3	1.1	20	06/02/14 14:50	06/05/14 14:24	12672-29-6	4d
PCB-1254 (Aroclor 1254)	2.0J mg/kg		2.3	1.1	20	06/02/14 14:50	06/05/14 14:24	11097-69-1	4d
PCB-1260 (Aroclor 1260)	ND mg/kg		2.3	1.1	20	06/02/14 14:50	06/05/14 14:24	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0 %.		30-106		20	06/02/14 14:50	06/05/14 14:24	877-09-8	S4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	5.7 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:32	7440-38-2	
Barium	61.7 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:32	7440-39-3	
Cadmium	ND mg/kg		0.54	0.27	1	06/03/14 08:54	06/04/14 11:32	7440-43-9	
Chromium	997 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:32	7440-47-3	
Lead	43.1 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:32	7439-92-1	
Selenium	1.1 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:32	7782-49-2	
Silver	1.2 mg/kg		0.54	0.27	1	06/03/14 08:54	06/04/14 11:32	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.98 mg/kg		0.23	0.19	1	06/12/14 09:44	06/13/14 11:06	7439-97-6	1d
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	0.046 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	83-32-9	
Acenaphthylene	ND mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	208-96-8	
Anthracene	0.013 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	120-12-7	
Benzo(a)anthracene	0.017 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	56-55-3	
Benzo(a)pyrene	0.016 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	50-32-8	
Benzo(b)fluoranthene	0.016 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	205-99-2	
Benzo(g,h,i)perylene	0.013 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	191-24-2	
Benzo(k)fluoranthene	0.015 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	207-08-9	
Chrysene	0.023 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	218-01-9	
Dibenz(a,h)anthracene	0.0058 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	53-70-3	
Fluoranthene	0.070 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	206-44-0	
Fluorene	0.027 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	86-73-7	
Indeno(1,2,3-cd)pyrene	0.011 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	193-39-5	
1-Methylnaphthalene	0.055 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	90-12-0	N2
2-Methylnaphthalene	0.078 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	91-57-6	
Naphthalene	0.11 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	91-20-3	
Phenanthrene	0.090 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	85-01-8	
Pyrene	0.048 mg/kg		0.0056	0.0028	1	06/03/14 13:25	06/04/14 12:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49 %.		38-110		1	06/03/14 13:25	06/04/14 12:05	321-60-8	
p-Terphenyl-d14 (S)	34 %.		32-111		1	06/03/14 13:25	06/04/14 12:05	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP1(8-10') Lab ID: 5098489001 Collected: 05/28/14 16:20 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.088	0.044	1		06/09/14 05:30	67-64-1	
Acrolein	ND mg/kg		0.088	0.044	1		06/09/14 05:30	107-02-8	
Acrylonitrile	ND mg/kg		0.088	0.044	1		06/09/14 05:30	107-13-1	
Benzene	ND mg/kg		0.0044	0.00088	1		06/09/14 05:30	71-43-2	
Bromobenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	108-86-1	
Bromoform	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	75-27-4	
Bromomethane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.022	0.011	1		06/09/14 05:30	78-93-3	
n-Butylbenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	98-06-6	
Carbon disulfide	ND mg/kg		0.0088	0.0022	1		06/09/14 05:30	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	56-23-5	
Chlorobenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	108-90-7	
Chloroethane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	75-00-3	
Chloroform	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	67-66-3	
Chloromethane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	106-43-4	
Dibromochloromethane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	106-93-4	
Dibromomethane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.088	0.044	1		06/09/14 05:30	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0044	0.00088	1		06/09/14 05:30	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	75-35-4	
cis-1,2-Dichloroethene	0.049 mg/kg		0.0044	0.0022	1		06/09/14 05:30	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	10061-02-6	
Ethylbenzene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	100-41-4	
Ethyl methacrylate	ND mg/kg		0.088	0.044	1		06/09/14 05:30	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	87-68-3	
n-Hexane	ND mg/kg		0.0044	0.0022	1		06/09/14 05:30	110-54-3	N2
2-Hexanone	ND mg/kg		0.088	0.044	1		06/09/14 05:30	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP1(8-10') Lab ID: 5098489001 Collected: 05/28/14 16:20 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg	0.088	0.044	1			06/09/14 05:30	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	98-82-8	
p-Isopropyltoluene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	99-87-6	
Methylene Chloride	ND mg/kg	0.018	0.0088	1			06/09/14 05:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg	0.022	0.011	1			06/09/14 05:30	108-10-1	
Methyl-tert-butyl ether	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	1634-04-4	
n-Propylbenzene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	103-65-1	
Styrene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	79-34-5	
Tetrachloroethylene	0.032 mg/kg	0.0044	0.00088	1			06/09/14 05:30	127-18-4	
Toluene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	120-82-1	
1,1,1-Trichloroethane	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	71-55-6	
1,1,2-Trichloroethane	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	79-00-5	
Trichloroethylene	0.013 mg/kg	0.0044	0.00088	1			06/09/14 05:30	79-01-6	
Trichlorofluoromethane	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	75-69-4	
1,2,3-Trichloropropane	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	108-67-8	
Vinyl acetate	ND mg/kg	0.088	0.044	1			06/09/14 05:30	108-05-4	
Vinyl chloride	ND mg/kg	0.0044	0.0022	1			06/09/14 05:30	75-01-4	
Xylene (Total)	ND mg/kg	0.0088	0.0044	1			06/09/14 05:30	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	92 %.	85-118		1			06/09/14 05:30	1868-53-7	
Toluene-d8 (S)	100 %.	71-128		1			06/09/14 05:30	2037-26-5	
4-Bromofluorobenzene (S)	92 %.	56-144		1			06/09/14 05:30	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.4 %	0.10	0.10	1			06/04/14 16:05		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg	2.3	0.78	1	06/05/14 06:45	06/06/14 10:09	18540-29-9		
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	997 mg/kg	1.0		1			06/06/14 13:36	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP2(0-1') **Lab ID: 5098489002** Collected: 05/28/14 17:12 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:30	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	63 %.		30-106			1	06/02/14 14:50	06/05/14 14:30	877-09-8
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.6 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:57	7440-38-2	
Barium	60.7 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:57	7440-39-3	
Cadmium	ND mg/kg		0.54	0.27	1	06/03/14 08:54	06/04/14 11:57	7440-43-9	
Chromium	10.6 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:57	7440-47-3	
Lead	7.3 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:57	7439-92-1	
Selenium	ND mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 11:57	7782-49-2	
Silver	ND mg/kg		0.54	0.27	1	06/03/14 08:54	06/04/14 11:57	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.22	0.19	1	06/11/14 10:47	06/11/14 14:23	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	83-32-9	
Acenaphthylene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	208-96-8	
Anthracene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	207-08-9	
Chrysene	0.0027J mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	53-70-3	
Fluoranthene	0.0031J mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	206-44-0	
Fluorene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	193-39-5	
1-Methylnaphthalene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	90-12-0	N2
2-Methylnaphthalene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	91-57-6	
Naphthalene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	91-20-3	
Phenanthrene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	85-01-8	
Pyrene	ND mg/kg		0.0055	0.0027	1	06/03/14 13:25	06/04/14 12:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74 %.		38-110		1	06/03/14 13:25	06/04/14 12:23	321-60-8	
p-Terphenyl-d14 (S)	72 %.		32-111		1	06/03/14 13:25	06/04/14 12:23	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP2(0-1') Lab ID: 5098489002 Collected: 05/28/14 17:12 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.082	0.041	1		06/09/14 06:03	67-64-1	
Acrolein	ND mg/kg		0.082	0.041	1		06/09/14 06:03	107-02-8	
Acrylonitrile	ND mg/kg		0.082	0.041	1		06/09/14 06:03	107-13-1	
Benzene	ND mg/kg		0.0041	0.00082	1		06/09/14 06:03	71-43-2	
Bromobenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	108-86-1	
Bromoform	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-27-4	
Bromochloromethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	74-97-5	
Bromodichloromethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-25-2	
Bromoform	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.020	0.0098	1		06/09/14 06:03	78-93-3	
n-Butylbenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	98-06-6	
Carbon disulfide	ND mg/kg		0.0082	0.0020	1		06/09/14 06:03	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	56-23-5	
Chlorobenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	108-90-7	
Chloroethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-00-3	
Chloroform	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	67-66-3	
Chloromethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	106-43-4	
Dibromochloromethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	106-93-4	
Dibromomethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.082	0.041	1		06/09/14 06:03	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0041	0.00082	1		06/09/14 06:03	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	10061-02-6	
Ethylbenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	100-41-4	
Ethyl methacrylate	ND mg/kg		0.082	0.041	1		06/09/14 06:03	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	87-68-3	
n-Hexane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	110-54-3	N2
2-Hexanone	ND mg/kg		0.082	0.041	1		06/09/14 06:03	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP2(0-1') **Lab ID: 5098489002** Collected: 05/28/14 17:12 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.082	0.041	1		06/09/14 06:03	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	99-87-6	
Methylene Chloride	ND mg/kg		0.016	0.0082	1		06/09/14 06:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.020	0.0098	1		06/09/14 06:03	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	103-65-1	
Styrene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	79-34-5	
Tetrachloroethylene	ND mg/kg		0.0041	0.00082	1		06/09/14 06:03	127-18-4	
Toluene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	79-00-5	
Trichloroethylene	ND mg/kg		0.0041	0.00082	1		06/09/14 06:03	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	108-67-8	
Vinyl acetate	ND mg/kg		0.082	0.041	1		06/09/14 06:03	108-05-4	
Vinyl chloride	ND mg/kg		0.0041	0.0020	1		06/09/14 06:03	75-01-4	
Xylene (Total)	ND mg/kg		0.0082	0.0041	1		06/09/14 06:03	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97 %.		85-118		1		06/09/14 06:03	1868-53-7	
Toluene-d8 (S)	98 %.		71-128		1		06/09/14 06:03	2037-26-5	
4-Bromofluorobenzene (S)	90 %.		56-144		1		06/09/14 06:03	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.8 %		0.10	0.10	1		06/04/14 16:22		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.76	1	06/05/14 06:45	06/06/14 10:10	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	10.6 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP3(8-10') Lab ID: 5098489003 Collected: 05/28/14 15:15 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:48	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	58 %.		30-106		1	06/02/14 14:50	06/05/14 14:48	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.9 mg/kg		1.0	0.50	1	06/03/14 08:54	06/04/14 11:59	7440-38-2	
Barium	42.2 mg/kg		1.0	0.50	1	06/03/14 08:54	06/04/14 11:59	7440-39-3	
Cadmium	ND mg/kg		0.50	0.25	1	06/03/14 08:54	06/04/14 11:59	7440-43-9	
Chromium	9.5 mg/kg		1.0	0.50	1	06/03/14 08:54	06/04/14 11:59	7440-47-3	
Lead	6.2 mg/kg		1.0	0.50	1	06/03/14 08:54	06/04/14 11:59	7439-92-1	
Selenium	ND mg/kg		1.0	0.50	1	06/03/14 08:54	06/04/14 11:59	7782-49-2	
Silver	ND mg/kg		0.50	0.25	1	06/03/14 08:54	06/04/14 11:59	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.22	0.19	1	06/11/14 10:47	06/11/14 14:25	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	83-32-9	
Acenaphthylene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	208-96-8	
Anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	207-08-9	
Chrysene	0.0028J mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	53-70-3	
Fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	206-44-0	
Fluorene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	193-39-5	
1-Methylnaphthalene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	90-12-0	N2
2-Methylnaphthalene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	91-57-6	
Naphthalene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	91-20-3	
Phenanthrene	0.0035J mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	85-01-8	
Pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76 %.		38-110		1	06/03/14 13:25	06/04/14 12:41	321-60-8	
p-Terphenyl-d14 (S)	65 %.		32-111		1	06/03/14 13:25	06/04/14 12:41	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP3(8-10') Lab ID: 5098489003 Collected: 05/28/14 15:15 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.094	0.047	1		06/09/14 06:35	67-64-1	
Acrolein	ND mg/kg		0.094	0.047	1		06/09/14 06:35	107-02-8	
Acrylonitrile	ND mg/kg		0.094	0.047	1		06/09/14 06:35	107-13-1	
Benzene	ND mg/kg		0.0047	0.00094	1		06/09/14 06:35	71-43-2	
Bromobenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	108-86-1	
Bromoform	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	75-27-4	
Bromomethane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.023	0.011	1		06/09/14 06:35	78-93-3	
n-Butylbenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	98-06-6	
Carbon disulfide	ND mg/kg		0.0094	0.0023	1		06/09/14 06:35	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	56-23-5	
Chlorobenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	108-90-7	
Chloroethane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	75-00-3	
Chloroform	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	67-66-3	
Chloromethane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	106-43-4	
Dibromochloromethane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	106-93-4	
Dibromomethane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.094	0.047	1		06/09/14 06:35	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0047	0.00094	1		06/09/14 06:35	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	10061-02-6	
Ethylbenzene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	100-41-4	
Ethyl methacrylate	ND mg/kg		0.094	0.047	1		06/09/14 06:35	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	87-68-3	
n-Hexane	ND mg/kg		0.0047	0.0023	1		06/09/14 06:35	110-54-3	N2
2-Hexanone	ND mg/kg		0.094	0.047	1		06/09/14 06:35	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP3(8-10') **Lab ID: 5098489003** Collected: 05/28/14 15:15 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg	0.094	0.047	1			06/09/14 06:35	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	98-82-8	
p-Isopropyltoluene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	99-87-6	
Methylene Chloride	ND mg/kg	0.019	0.0094	1			06/09/14 06:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg	0.023	0.011	1			06/09/14 06:35	108-10-1	
Methyl-tert-butyl ether	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	1634-04-4	
n-Propylbenzene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	103-65-1	
Styrene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	79-34-5	
Tetrachloroethene	ND mg/kg	0.0047	0.00094	1			06/09/14 06:35	127-18-4	
Toluene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	120-82-1	
1,1,1-Trichloroethane	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	71-55-6	
1,1,2-Trichloroethane	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	79-00-5	
Trichloroethene	ND mg/kg	0.0047	0.00094	1			06/09/14 06:35	79-01-6	
Trichlorofluoromethane	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	75-69-4	
1,2,3-Trichloropropane	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	108-67-8	
Vinyl acetate	ND mg/kg	0.094	0.047	1			06/09/14 06:35	108-05-4	
Vinyl chloride	ND mg/kg	0.0047	0.0023	1			06/09/14 06:35	75-01-4	
Xylene (Total)	ND mg/kg	0.0094	0.0047	1			06/09/14 06:35	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	94 %.	85-118		1			06/09/14 06:35	1868-53-7	
Toluene-d8 (S)	107 %.	71-128		1			06/09/14 06:35	2037-26-5	
4-Bromofluorobenzene (S)	87 %.	56-144		1			06/09/14 06:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	6.7 %	0.10	0.10	1			06/04/14 16:22		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg	2.1	0.72	1	06/05/14 06:45	06/06/14 10:26	18540-29-9		
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	9.5 mg/kg	1.0		1			06/06/14 13:36	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP4(8-10') Lab ID: 5098489004 Collected: 05/28/14 14:36 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:53	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:53	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:53	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:53	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:53	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:53	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.054	1	06/02/14 14:50	06/05/14 14:53	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	65 %.		30-106			1	06/02/14 14:50	06/05/14 14:53	877-09-8
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	5.8 mg/kg		0.91	0.45	1	06/03/14 08:54	06/04/14 12:01	7440-38-2	
Barium	29.0 mg/kg		0.91	0.45	1	06/03/14 08:54	06/04/14 12:01	7440-39-3	
Cadmium	ND mg/kg		0.45	0.23	1	06/03/14 08:54	06/04/14 12:01	7440-43-9	
Chromium	9.3 mg/kg		0.91	0.45	1	06/03/14 08:54	06/04/14 12:01	7440-47-3	
Lead	5.7 mg/kg		0.91	0.45	1	06/03/14 08:54	06/04/14 12:01	7439-92-1	
Selenium	ND mg/kg		0.91	0.45	1	06/03/14 08:54	06/04/14 12:01	7782-49-2	
Silver	ND mg/kg		0.45	0.23	1	06/03/14 08:54	06/04/14 12:01	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.22	0.19	1	06/11/14 10:47	06/11/14 14:27	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	83-32-9	
Acenaphthylene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	208-96-8	
Anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	207-08-9	
Chrysene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	53-70-3	
Fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	206-44-0	
Fluorene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	193-39-5	
1-Methylnaphthalene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	90-12-0	N2
2-Methylnaphthalene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	91-57-6	
Naphthalene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	91-20-3	
Phenanthrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	85-01-8	
Pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 12:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76 %.		38-110			1	06/03/14 13:25	06/04/14 12:59	321-60-8
p-Terphenyl-d14 (S)	55 %.		32-111			1	06/03/14 13:25	06/04/14 12:59	1718-51-0

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP4(8-10') Lab ID: 5098489004 Collected: 05/28/14 14:36 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.085	0.042	1		06/09/14 07:08	67-64-1	
Acrolein	ND mg/kg		0.085	0.042	1		06/09/14 07:08	107-02-8	
Acrylonitrile	ND mg/kg		0.085	0.042	1		06/09/14 07:08	107-13-1	
Benzene	ND mg/kg		0.0042	0.00085	1		06/09/14 07:08	71-43-2	
Bromobenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	108-86-1	
Bromoform	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-27-4	
Bromomethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.021	0.010	1		06/09/14 07:08	78-93-3	
n-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	98-06-6	
Carbon disulfide	ND mg/kg		0.0085	0.0021	1		06/09/14 07:08	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	56-23-5	
Chlorobenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	108-90-7	
Chloroethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-00-3	
Chloroform	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	67-66-3	
Chloromethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	106-43-4	
Dibromochloromethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	106-93-4	
Dibromomethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.085	0.042	1		06/09/14 07:08	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0042	0.00085	1		06/09/14 07:08	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	10061-02-6	
Ethylbenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	100-41-4	
Ethyl methacrylate	ND mg/kg		0.085	0.042	1		06/09/14 07:08	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	87-68-3	
n-Hexane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	110-54-3	N2
2-Hexanone	ND mg/kg		0.085	0.042	1		06/09/14 07:08	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP4(8-10') **Lab ID: 5098489004** Collected: 05/28/14 14:36 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.085	0.042	1		06/09/14 07:08	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	99-87-6	
Methylene Chloride	ND mg/kg		0.017	0.0085	1		06/09/14 07:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.021	0.010	1		06/09/14 07:08	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	103-65-1	
Styrene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	79-34-5	
Tetrachloroethylene	ND mg/kg		0.0042	0.00085	1		06/09/14 07:08	127-18-4	
Toluene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	79-00-5	
Trichloroethylene	ND mg/kg		0.0042	0.00085	1		06/09/14 07:08	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	108-67-8	
Vinyl acetate	ND mg/kg		0.085	0.042	1		06/09/14 07:08	108-05-4	
Vinyl chloride	ND mg/kg		0.0042	0.0021	1		06/09/14 07:08	75-01-4	
Xylene (Total)	ND mg/kg		0.0085	0.0042	1		06/09/14 07:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	95 %.		85-118		1		06/09/14 07:08	1868-53-7	
Toluene-d8 (S)	103 %.		71-128		1		06/09/14 07:08	2037-26-5	
4-Bromofluorobenzene (S)	88 %.		56-144		1		06/09/14 07:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.1 %		0.10	0.10	1		06/04/14 16:22		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.75	1	06/05/14 06:45	06/06/14 10:27	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	9.3 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP5(8-10') Lab ID: 5098489005 Collected: 05/28/14 13:21 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.053	1	06/02/14 13:05	06/04/14 15:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.053	1	06/02/14 13:05	06/04/14 15:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.053	1	06/02/14 13:05	06/04/14 15:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.053	1	06/02/14 13:05	06/04/14 15:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.053	1	06/02/14 13:05	06/04/14 15:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.053	1	06/02/14 13:05	06/04/14 15:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.053	1	06/02/14 13:05	06/04/14 15:35	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	71 %.		30-106			1	06/02/14 13:05	06/04/14 15:35	877-09-8
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	8.0 mg/kg		0.99	0.50	1	06/03/14 08:54	06/04/14 12:03	7440-38-2	
Barium	32.2 mg/kg		0.99	0.50	1	06/03/14 08:54	06/04/14 12:03	7440-39-3	
Cadmium	ND mg/kg		0.50	0.25	1	06/03/14 08:54	06/04/14 12:03	7440-43-9	
Chromium	9.2 mg/kg		0.99	0.50	1	06/03/14 08:54	06/04/14 12:03	7440-47-3	
Lead	10.6 mg/kg		0.99	0.50	1	06/03/14 08:54	06/04/14 12:03	7439-92-1	
Selenium	ND mg/kg		0.99	0.50	1	06/03/14 08:54	06/04/14 12:03	7782-49-2	
Silver	ND mg/kg		0.50	0.25	1	06/03/14 08:54	06/04/14 12:03	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.22	0.19	1	06/11/14 10:47	06/11/14 14:29	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	83-32-9	
Acenaphthylene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	208-96-8	
Anthracene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	207-08-9	
Chrysene	0.0032J mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	53-70-3	
Fluoranthene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	206-44-0	
Fluorene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	193-39-5	
1-Methylnaphthalene	0.0028J mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	90-12-0	N2
2-Methylnaphthalene	0.0030J mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	91-57-6	
Naphthalene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	91-20-3	
Phenanthrene	0.0071 mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	85-01-8	
Pyrene	ND mg/kg		0.0053	0.0027	1	06/03/14 13:25	06/04/14 13:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75 %.		38-110			1	06/03/14 13:25	06/04/14 13:17	321-60-8
p-Terphenyl-d14 (S)	71 %.		32-111			1	06/03/14 13:25	06/04/14 13:17	1718-51-0

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP5(8-10') Lab ID: 5098489005 Collected: 05/28/14 13:21 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.097	0.048	1		06/09/14 07:41	67-64-1	
Acrolein	ND mg/kg		0.097	0.048	1		06/09/14 07:41	107-02-8	
Acrylonitrile	ND mg/kg		0.097	0.048	1		06/09/14 07:41	107-13-1	
Benzene	ND mg/kg		0.0048	0.00097	1		06/09/14 07:41	71-43-2	
Bromobenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	108-86-1	
Bromoform	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-27-4	
Bromomethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.024	0.012	1		06/09/14 07:41	78-93-3	
n-Butylbenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	98-06-6	
Carbon disulfide	ND mg/kg		0.0097	0.0024	1		06/09/14 07:41	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	56-23-5	
Chlorobenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	108-90-7	
Chloroethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-00-3	
Chloroform	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	67-66-3	
Chloromethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	106-43-4	
Dibromochloromethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	106-93-4	
Dibromomethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.097	0.048	1		06/09/14 07:41	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0048	0.00097	1		06/09/14 07:41	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	10061-02-6	
Ethylbenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	100-41-4	
Ethyl methacrylate	ND mg/kg		0.097	0.048	1		06/09/14 07:41	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	87-68-3	
n-Hexane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	110-54-3	N2
2-Hexanone	ND mg/kg		0.097	0.048	1		06/09/14 07:41	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP5(8-10') **Lab ID: 5098489005** Collected: 05/28/14 13:21 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.097	0.048	1		06/09/14 07:41	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	99-87-6	
Methylene Chloride	ND mg/kg		0.019	0.0097	1		06/09/14 07:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.024	0.012	1		06/09/14 07:41	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	103-65-1	
Styrene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	79-34-5	
Tetrachloroethene	ND mg/kg		0.0048	0.00097	1		06/09/14 07:41	127-18-4	
Toluene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	79-00-5	
Trichloroethene	ND mg/kg		0.0048	0.00097	1		06/09/14 07:41	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	108-67-8	
Vinyl acetate	ND mg/kg		0.097	0.048	1		06/09/14 07:41	108-05-4	
Vinyl chloride	ND mg/kg		0.0048	0.0024	1		06/09/14 07:41	75-01-4	
Xylene (Total)	ND mg/kg		0.0097	0.0048	1		06/09/14 07:41	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	95 %.		85-118		1		06/09/14 07:41	1868-53-7	
Toluene-d8 (S)	101 %.		71-128		1		06/09/14 07:41	2037-26-5	
4-Bromofluorobenzene (S)	89 %.		56-144		1		06/09/14 07:41	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	7.0 %		0.10	0.10	1		06/04/14 16:23		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.1	0.74	1	06/05/14 06:45	06/06/14 10:27	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	9.2 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP6(8-10') Lab ID: 5098489006 Collected: 05/28/14 14:00 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:20	12674-11-2		
PCB-1221 (Aroclor 1221)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:20	11104-28-2		
PCB-1232 (Aroclor 1232)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:20	11141-16-5		
PCB-1242 (Aroclor 1242)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:20	53469-21-9		
PCB-1248 (Aroclor 1248)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:20	12672-29-6		
PCB-1254 (Aroclor 1254)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:20	11097-69-1		
PCB-1260 (Aroclor 1260)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:20	11096-82-5		
Surrogates									
Tetrachloro-m-xylene (S)	55 %.	30-106			1	06/03/14 14:30	06/04/14 08:20	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.8 mg/kg	0.96	0.48	1	06/03/14 08:54	06/04/14 12:05	7440-38-2		
Barium	39.4 mg/kg	0.96	0.48	1	06/03/14 08:54	06/04/14 12:05	7440-39-3		
Cadmium	ND mg/kg	0.48	0.24	1	06/03/14 08:54	06/04/14 12:05	7440-43-9		
Chromium	10.9 mg/kg	0.96	0.48	1	06/03/14 08:54	06/04/14 12:05	7440-47-3		
Lead	7.9 mg/kg	0.96	0.48	1	06/03/14 08:54	06/04/14 12:05	7439-92-1		
Selenium	ND mg/kg	0.96	0.48	1	06/03/14 08:54	06/04/14 12:05	7782-49-2		
Silver	ND mg/kg	0.48	0.24	1	06/03/14 08:54	06/04/14 12:05	7440-22-4		
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg	0.21	0.18	1	06/11/14 10:47	06/11/14 14:37	7439-97-6		
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	83-32-9		
Acenaphthylene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	208-96-8		
Anthracene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	120-12-7		
Benzo(a)anthracene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	56-55-3		
Benzo(a)pyrene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	50-32-8		
Benzo(b)fluoranthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	205-99-2		
Benzo(g,h,i)perylene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	191-24-2		
Benzo(k)fluoranthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	207-08-9		
Chrysene	0.0042J mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	53-70-3		
Fluoranthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	206-44-0		
Fluorene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	86-73-7		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	193-39-5		
1-Methylnaphthalene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	90-12-0	N2	
2-Methylnaphthalene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	91-57-6		
Naphthalene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	91-20-3		
Phenanthrene	0.0054 mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	85-01-8		
Pyrene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:36	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	86 %.	38-110		1	06/03/14 13:25	06/04/14 13:36	321-60-8		
p-Terphenyl-d14 (S)	72 %.	32-111		1	06/03/14 13:25	06/04/14 13:36	1718-51-0		

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP6(8-10') Lab ID: 5098489006 Collected: 05/28/14 14:00 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.076	0.038	1		06/09/14 08:13	67-64-1	
Acrolein	ND mg/kg		0.076	0.038	1		06/09/14 08:13	107-02-8	
Acrylonitrile	ND mg/kg		0.076	0.038	1		06/09/14 08:13	107-13-1	
Benzene	ND mg/kg		0.0038	0.00076	1		06/09/14 08:13	71-43-2	
Bromobenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	108-86-1	
Bromoform	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-27-4	
Bromochloromethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	74-97-5	
Bromodichloromethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-25-2	
Bromoform	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.019	0.0091	1		06/09/14 08:13	78-93-3	
n-Butylbenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	98-06-6	
Carbon disulfide	ND mg/kg		0.0076	0.0019	1		06/09/14 08:13	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	56-23-5	
Chlorobenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	108-90-7	
Chloroethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-00-3	
Chloroform	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	67-66-3	
Chloromethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	106-43-4	
Dibromochloromethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	106-93-4	
Dibromomethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.076	0.038	1		06/09/14 08:13	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0038	0.00076	1		06/09/14 08:13	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	10061-02-6	
Ethylbenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	100-41-4	
Ethyl methacrylate	ND mg/kg		0.076	0.038	1		06/09/14 08:13	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	87-68-3	
n-Hexane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	110-54-3	N2
2-Hexanone	ND mg/kg		0.076	0.038	1		06/09/14 08:13	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP6(8-10') **Lab ID: 5098489006** Collected: 05/28/14 14:00 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.076	0.038	1		06/09/14 08:13	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	99-87-6	
Methylene Chloride	ND mg/kg		0.015	0.0076	1		06/09/14 08:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.019	0.0091	1		06/09/14 08:13	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	103-65-1	
Styrene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	79-34-5	
Tetrachloroethene	ND mg/kg		0.0038	0.00076	1		06/09/14 08:13	127-18-4	
Toluene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	79-00-5	
Trichloroethene	ND mg/kg		0.0038	0.00076	1		06/09/14 08:13	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	108-67-8	
Vinyl acetate	ND mg/kg		0.076	0.038	1		06/09/14 08:13	108-05-4	
Vinyl chloride	ND mg/kg		0.0038	0.0019	1		06/09/14 08:13	75-01-4	
Xylene (Total)	ND mg/kg		0.0076	0.0038	1		06/09/14 08:13	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	94 %.		85-118		1		06/09/14 08:13	1868-53-7	
Toluene-d8 (S)	99 %.		71-128		1		06/09/14 08:13	2037-26-5	
4-Bromofluorobenzene (S)	87 %.		56-144		1		06/09/14 08:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	7.7 %		0.10	0.10	1		06/04/14 16:23		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.1	0.74	1	06/05/14 06:45	06/06/14 10:28	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	10.9 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP7(8-10') Lab ID: 5098489007 Collected: 05/28/14 11:53 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 08:26	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 08:26	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 08:26	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 08:26	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 08:26	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 08:26	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 08:26	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	51 %.		30-106		1	06/03/14 14:30	06/04/14 08:26	877-09-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	9.0 mg/kg		0.95	0.47	1	06/03/14 08:54	06/04/14 12:14	7440-38-2	
Barium	55.5 mg/kg		0.95	0.47	1	06/03/14 08:54	06/04/14 12:14	7440-39-3	
Cadmium	0.37J mg/kg		0.47	0.24	1	06/03/14 08:54	06/04/14 12:14	7440-43-9	
Chromium	11.3 mg/kg		0.95	0.47	1	06/03/14 08:54	06/04/14 12:14	7440-47-3	
Lead	8.1 mg/kg		0.95	0.47	1	06/03/14 08:54	06/04/14 12:14	7439-92-1	
Selenium	ND mg/kg		0.95	0.47	1	06/03/14 08:54	06/04/14 12:14	7782-49-2	
Silver	ND mg/kg		0.47	0.24	1	06/03/14 08:54	06/04/14 12:14	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.22	0.18	1	06/11/14 10:47	06/11/14 14:39	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	83-32-9	
Acenaphthylene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	208-96-8	
Anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	205-99-2	
Benzo(g,h,i)perylene	0.0028J mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	207-08-9	
Chrysene	0.0050J mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	53-70-3	
Fluoranthene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	206-44-0	
Fluorene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	193-39-5	
1-Methylnaphthalene	0.011 mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	90-12-0	N2
2-Methylnaphthalene	0.014 mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	91-57-6	
Naphthalene	ND mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	91-20-3	
Phenanthrene	0.012 mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	85-01-8	
Pyrene	0.0028J mg/kg		0.0054	0.0027	1	06/03/14 13:25	06/04/14 13:54	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72 %.		38-110		1	06/03/14 13:25	06/04/14 13:54	321-60-8	
p-Terphenyl-d14 (S)	63 %.		32-111		1	06/03/14 13:25	06/04/14 13:54	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP7(8-10') Lab ID: 5098489007 Collected: 05/28/14 11:53 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.17	0.084	1		06/09/14 08:46	67-64-1	
Acrolein	ND mg/kg		0.17	0.084	1		06/09/14 08:46	107-02-8	
Acrylonitrile	ND mg/kg		0.17	0.084	1		06/09/14 08:46	107-13-1	
Benzene	ND mg/kg		0.0084	0.0017	1		06/09/14 08:46	71-43-2	
Bromobenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	108-86-1	
Bromoform	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-27-4	
Bromomethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.042	0.020	1		06/09/14 08:46	78-93-3	
n-Butylbenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	98-06-6	
Carbon disulfide	ND mg/kg		0.017	0.0042	1		06/09/14 08:46	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	56-23-5	
Chlorobenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	108-90-7	
Chloroethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-00-3	
Chloroform	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	67-66-3	
Chloromethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	106-43-4	
Dibromochloromethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	106-93-4	
Dibromomethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.17	0.084	1		06/09/14 08:46	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0084	0.0017	1		06/09/14 08:46	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	10061-02-6	
Ethylbenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	100-41-4	
Ethyl methacrylate	ND mg/kg		0.17	0.084	1		06/09/14 08:46	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	87-68-3	
n-Hexane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	110-54-3	N2
2-Hexanone	ND mg/kg		0.17	0.084	1		06/09/14 08:46	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP7(8-10') **Lab ID: 5098489007** Collected: 05/28/14 11:53 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.17	0.084	1		06/09/14 08:46	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	99-87-6	
Methylene Chloride	ND mg/kg		0.034	0.017	1		06/09/14 08:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.042	0.020	1		06/09/14 08:46	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	103-65-1	
Styrene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	79-34-5	
Tetrachloroethene	ND mg/kg		0.0084	0.0017	1		06/09/14 08:46	127-18-4	
Toluene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	79-00-5	
Trichloroethene	ND mg/kg		0.0084	0.0017	1		06/09/14 08:46	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	108-67-8	
Vinyl acetate	ND mg/kg		0.17	0.084	1		06/09/14 08:46	108-05-4	
Vinyl chloride	ND mg/kg		0.0084	0.0042	1		06/09/14 08:46	75-01-4	
Xylene (Total)	ND mg/kg		0.017	0.0084	1		06/09/14 08:46	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	94 %.		85-118		1		06/09/14 08:46	1868-53-7	
Toluene-d8 (S)	102 %.		71-128		1		06/09/14 08:46	2037-26-5	
4-Bromofluorobenzene (S)	87 %.		56-144		1		06/09/14 08:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.2 %		0.10	0.10	1		06/04/14 16:23		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.76	1	06/05/14 06:45	06/06/14 10:28	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	11.3 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP8(8-10') Lab ID: 5098489008 Collected: 05/28/14 12:35 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:32	12674-11-2		
PCB-1221 (Aroclor 1221)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:32	11104-28-2		
PCB-1232 (Aroclor 1232)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:32	11141-16-5		
PCB-1242 (Aroclor 1242)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:32	53469-21-9		
PCB-1248 (Aroclor 1248)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:32	12672-29-6		
PCB-1254 (Aroclor 1254)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:32	11097-69-1		
PCB-1260 (Aroclor 1260)	ND mg/kg	0.11	0.054	1	06/03/14 14:30	06/04/14 08:32	11096-82-5		
Surrogates									
Tetrachloro-m-xylene (S)	58 %.	30-106			1	06/03/14 14:30	06/04/14 08:32	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.4 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:16	7440-38-2		
Barium	48.0 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:16	7440-39-3		
Cadmium	ND mg/kg	0.49	0.25	1	06/03/14 08:54	06/04/14 12:16	7440-43-9		
Chromium	9.1 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:16	7440-47-3		
Lead	6.0 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:16	7439-92-1		
Selenium	ND mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:16	7782-49-2		
Silver	ND mg/kg	0.49	0.25	1	06/03/14 08:54	06/04/14 12:16	7440-22-4		
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg	0.22	0.19	1	06/11/14 10:47	06/11/14 14:41	7439-97-6		
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	83-32-9		
Acenaphthylene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	208-96-8		
Anthracene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	120-12-7		
Benzo(a)anthracene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	56-55-3		
Benzo(a)pyrene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	50-32-8		
Benzo(b)fluoranthene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	205-99-2		
Benzo(g,h,i)perylene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	191-24-2		
Benzo(k)fluoranthene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	207-08-9		
Chrysene	0.0036J mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	53-70-3		
Fluoranthene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	206-44-0		
Fluorene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	86-73-7		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	193-39-5		
1-Methylnaphthalene	0.0060 mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	90-12-0	N2	
2-Methylnaphthalene	0.0070 mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	91-57-6		
Naphthalene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	91-20-3		
Phenanthrene	0.0091 mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	85-01-8		
Pyrene	ND mg/kg	0.0055	0.0027	1	06/03/14 13:25	06/04/14 14:12	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	77 %.	38-110		1	06/03/14 13:25	06/04/14 14:12	321-60-8		
p-Terphenyl-d14 (S)	65 %.	32-111		1	06/03/14 13:25	06/04/14 14:12	1718-51-0		

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP8(8-10') Lab ID: 5098489008 Collected: 05/28/14 12:35 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.080	0.040	1		06/09/14 09:18	67-64-1	
Acrolein	ND mg/kg		0.080	0.040	1		06/09/14 09:18	107-02-8	
Acrylonitrile	ND mg/kg		0.080	0.040	1		06/09/14 09:18	107-13-1	
Benzene	ND mg/kg		0.0040	0.00080	1		06/09/14 09:18	71-43-2	
Bromobenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	108-86-1	
Bromoform	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-27-4	
Bromochloromethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	74-97-5	
Bromodichloromethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-25-2	
Bromoform	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.020	0.0096	1		06/09/14 09:18	78-93-3	
n-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	98-06-6	
Carbon disulfide	ND mg/kg		0.0080	0.0020	1		06/09/14 09:18	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	56-23-5	
Chlorobenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	108-90-7	
Chloroethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-00-3	
Chloroform	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	67-66-3	
Chloromethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	106-43-4	
Dibromochloromethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	106-93-4	
Dibromomethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.080	0.040	1		06/09/14 09:18	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0040	0.00080	1		06/09/14 09:18	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	10061-02-6	
Ethylbenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	100-41-4	
Ethyl methacrylate	ND mg/kg		0.080	0.040	1		06/09/14 09:18	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	87-68-3	
n-Hexane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	110-54-3	N2
2-Hexanone	ND mg/kg		0.080	0.040	1		06/09/14 09:18	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP8(8-10') **Lab ID: 5098489008** Collected: 05/28/14 12:35 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.080	0.040	1		06/09/14 09:18	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	99-87-6	
Methylene Chloride	ND mg/kg		0.016	0.0080	1		06/09/14 09:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.020	0.0096	1		06/09/14 09:18	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	103-65-1	
Styrene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	79-34-5	
Tetrachloroethene	ND mg/kg		0.0040	0.00080	1		06/09/14 09:18	127-18-4	
Toluene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	79-00-5	
Trichloroethene	ND mg/kg		0.0040	0.00080	1		06/09/14 09:18	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	108-67-8	
Vinyl acetate	ND mg/kg		0.080	0.040	1		06/09/14 09:18	108-05-4	
Vinyl chloride	ND mg/kg		0.0040	0.0020	1		06/09/14 09:18	75-01-4	
Xylene (Total)	ND mg/kg		0.0080	0.0040	1		06/09/14 09:18	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96 %.		85-118		1		06/09/14 09:18	1868-53-7	
Toluene-d8 (S)	121 %.		71-128		1		06/09/14 09:18	2037-26-5	
4-Bromofluorobenzene (S)	72 %.		56-144		1		06/09/14 09:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	9.0 %		0.10	0.10	1		06/04/14 16:23		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.77	1	06/05/14 06:45	06/06/14 10:29	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	9.1 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP9(8-10') Lab ID: 5098489009 Collected: 05/28/14 10:41 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.057	1	06/03/14 14:30	06/04/14 08:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.057	1	06/03/14 14:30	06/04/14 08:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.057	1	06/03/14 14:30	06/04/14 08:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.057	1	06/03/14 14:30	06/04/14 08:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.057	1	06/03/14 14:30	06/04/14 08:38	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.057	1	06/03/14 14:30	06/04/14 08:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.057	1	06/03/14 14:30	06/04/14 08:38	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	63 %.		30-106		1	06/03/14 14:30	06/04/14 08:38	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.8 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 12:18	7440-38-2	
Barium	44.6 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 12:18	7440-39-3	
Cadmium	0.33J mg/kg		0.54	0.27	1	06/03/14 08:54	06/04/14 12:18	7440-43-9	
Chromium	11.3 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 12:18	7440-47-3	
Lead	8.8 mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 12:18	7439-92-1	
Selenium	ND mg/kg		1.1	0.54	1	06/03/14 08:54	06/04/14 12:18	7782-49-2	
Silver	ND mg/kg		0.54	0.27	1	06/03/14 08:54	06/04/14 12:18	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.24	0.21	1	06/11/14 10:47	06/11/14 14:11	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	83-32-9	
Acenaphthylene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	208-96-8	
Anthracene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	207-08-9	
Chrysene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	53-70-3	
Fluoranthene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	206-44-0	
Fluorene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	193-39-5	
1-Methylnaphthalene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	90-12-0	N2
2-Methylnaphthalene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	91-57-6	
Naphthalene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	91-20-3	
Phenanthrene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	85-01-8	
Pyrene	ND mg/kg		0.0058	0.0029	1	06/03/14 13:25	06/04/14 14:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71 %.		38-110		1	06/03/14 13:25	06/04/14 14:30	321-60-8	
p-Terphenyl-d14 (S)	55 %.		32-111		1	06/03/14 13:25	06/04/14 14:30	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP9(8-10') Lab ID: 5098489009 Collected: 05/28/14 10:41 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.078	0.039	1		06/09/14 09:51	67-64-1	
Acrolein	ND mg/kg		0.078	0.039	1		06/09/14 09:51	107-02-8	
Acrylonitrile	ND mg/kg		0.078	0.039	1		06/09/14 09:51	107-13-1	
Benzene	ND mg/kg		0.0039	0.00078	1		06/09/14 09:51	71-43-2	
Bromobenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	108-86-1	
Bromoform	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-27-4	
Bromochloromethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	74-97-5	
Bromodichloromethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-25-2	
Bromoform	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.020	0.0094	1		06/09/14 09:51	78-93-3	
n-Butylbenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	98-06-6	
Carbon disulfide	ND mg/kg		0.0078	0.0020	1		06/09/14 09:51	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	56-23-5	
Chlorobenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	108-90-7	
Chloroethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-00-3	
Chloroform	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	67-66-3	
Chloromethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	106-43-4	
Dibromochloromethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	106-93-4	
Dibromomethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.078	0.039	1		06/09/14 09:51	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0039	0.00078	1		06/09/14 09:51	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	10061-02-6	
Ethylbenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	100-41-4	
Ethyl methacrylate	ND mg/kg		0.078	0.039	1		06/09/14 09:51	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	87-68-3	
n-Hexane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	110-54-3	N2
2-Hexanone	ND mg/kg		0.078	0.039	1		06/09/14 09:51	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP9(8-10') **Lab ID: 5098489009** Collected: 05/28/14 10:41 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.078	0.039	1		06/09/14 09:51	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	99-87-6	
Methylene Chloride	ND mg/kg		0.016	0.0078	1		06/09/14 09:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.020	0.0094	1		06/09/14 09:51	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	103-65-1	
Styrene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	79-34-5	
Tetrachloroethene	ND mg/kg		0.0039	0.00078	1		06/09/14 09:51	127-18-4	
Toluene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	79-00-5	
Trichloroethene	ND mg/kg		0.0039	0.00078	1		06/09/14 09:51	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	108-67-8	
Vinyl acetate	ND mg/kg		0.078	0.039	1		06/09/14 09:51	108-05-4	
Vinyl chloride	ND mg/kg		0.0039	0.0020	1		06/09/14 09:51	75-01-4	
Xylene (Total)	ND mg/kg		0.0078	0.0039	1		06/09/14 09:51	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	94 %.		85-118		1		06/09/14 09:51	1868-53-7	
Toluene-d8 (S)	97 %.		71-128		1		06/09/14 09:51	2037-26-5	
4-Bromofluorobenzene (S)	91 %.		56-144		1		06/09/14 09:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	13.9 %		0.10	0.10	1		06/04/14 16:23		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.77	1	06/05/14 06:45	06/06/14 10:42	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	11.3 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP10(8-10') Lab ID: 5098489010 Collected: 05/28/14 09:46 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:44	12674-11-2		
PCB-1221 (Aroclor 1221)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:44	11104-28-2		
PCB-1232 (Aroclor 1232)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:44	11141-16-5		
PCB-1242 (Aroclor 1242)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:44	53469-21-9		
PCB-1248 (Aroclor 1248)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:44	12672-29-6		
PCB-1254 (Aroclor 1254)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:44	11097-69-1		
PCB-1260 (Aroclor 1260)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:44	11096-82-5		
Surrogates									
Tetrachloro-m-xylene (S)	50 %.	30-106			1	06/03/14 14:30	06/04/14 08:44	877-09-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	8.3 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:20	7440-38-2		
Barium	68.8 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:20	7440-39-3		
Cadmium	ND mg/kg	0.49	0.24	1	06/03/14 08:54	06/04/14 12:20	7440-43-9		
Chromium	13.3 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:20	7440-47-3		
Lead	7.8 mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:20	7439-92-1		
Selenium	ND mg/kg	0.98	0.49	1	06/03/14 08:54	06/04/14 12:20	7782-49-2		
Silver	ND mg/kg	0.49	0.24	1	06/03/14 08:54	06/04/14 12:20	7440-22-4		
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg	0.20	0.17	1	06/11/14 10:47	06/11/14 14:13	7439-97-6		
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	83-32-9		
Acenaphthylene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	208-96-8		
Anthracene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	120-12-7		
Benzo(a)anthracene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	56-55-3		
Benzo(a)pyrene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	50-32-8		
Benzo(b)fluoranthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	205-99-2		
Benzo(g,h,i)perylene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	191-24-2		
Benzo(k)fluoranthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	207-08-9		
Chrysene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	53-70-3		
Fluoranthene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	206-44-0		
Fluorene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	86-73-7		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	193-39-5		
1-Methylnaphthalene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	90-12-0	N2	
2-Methylnaphthalene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	91-57-6		
Naphthalene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	91-20-3		
Phenanthrene	0.0039J mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	85-01-8		
Pyrene	ND mg/kg	0.0054	0.0027	1	06/03/14 13:25	06/04/14 14:49	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	71 %.	38-110			1	06/03/14 13:25	06/04/14 14:49	321-60-8	
p-Terphenyl-d14 (S)	56 %.	32-111			1	06/03/14 13:25	06/04/14 14:49	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP10(8-10') Lab ID: 5098489010 Collected: 05/28/14 09:46 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.074	0.037	1		06/09/14 10:23	67-64-1	
Acrolein	ND mg/kg		0.074	0.037	1		06/09/14 10:23	107-02-8	
Acrylonitrile	ND mg/kg		0.074	0.037	1		06/09/14 10:23	107-13-1	
Benzene	ND mg/kg		0.0037	0.00074	1		06/09/14 10:23	71-43-2	
Bromobenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	108-86-1	
Bromoform	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-27-4	
Bromochloromethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	74-97-5	
Bromodichloromethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-25-2	
Bromoform	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.019	0.0089	1		06/09/14 10:23	78-93-3	
n-Butylbenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	98-06-6	
Carbon disulfide	ND mg/kg		0.0074	0.0019	1		06/09/14 10:23	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	56-23-5	
Chlorobenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	108-90-7	
Chloroethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-00-3	
Chloroform	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	67-66-3	
Chloromethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	106-43-4	
Dibromochloromethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	106-93-4	
Dibromomethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.074	0.037	1		06/09/14 10:23	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0037	0.00074	1		06/09/14 10:23	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	10061-02-6	
Ethylbenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	100-41-4	
Ethyl methacrylate	ND mg/kg		0.074	0.037	1		06/09/14 10:23	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	87-68-3	
n-Hexane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	110-54-3	N2
2-Hexanone	ND mg/kg		0.074	0.037	1		06/09/14 10:23	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: TP10(8-10') Lab ID: 5098489010 Collected: 05/28/14 09:46 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.074	0.037	1		06/09/14 10:23	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	99-87-6	
Methylene Chloride	ND mg/kg		0.015	0.0074	1		06/09/14 10:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.019	0.0089	1		06/09/14 10:23	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	103-65-1	
Styrene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	79-34-5	
Tetrachloroethene	ND mg/kg		0.0037	0.00074	1		06/09/14 10:23	127-18-4	
Toluene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	79-00-5	
Trichloroethene	ND mg/kg		0.0037	0.00074	1		06/09/14 10:23	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	108-67-8	
Vinyl acetate	ND mg/kg		0.074	0.037	1		06/09/14 10:23	108-05-4	
Vinyl chloride	ND mg/kg		0.0037	0.0019	1		06/09/14 10:23	75-01-4	
Xylene (Total)	ND mg/kg		0.0074	0.0037	1		06/09/14 10:23	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	94 %.		85-118		1		06/09/14 10:23	1868-53-7	
Toluene-d8 (S)	100 %.		71-128		1		06/09/14 10:23	2037-26-5	
4-Bromofluorobenzene (S)	88 %.		56-144		1		06/09/14 10:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	6.9 %		0.10	0.10	1		06/04/14 16:23		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.1	0.73	1	06/05/14 06:45	06/06/14 10:45	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	13.3 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: DUP01 Lab ID: 5098489011 Collected: 05/28/14 08:00 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:49	12674-11-2		
PCB-1221 (Aroclor 1221)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:49	11104-28-2		
PCB-1232 (Aroclor 1232)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:49	11141-16-5		
PCB-1242 (Aroclor 1242)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:49	53469-21-9		
PCB-1248 (Aroclor 1248)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:49	12672-29-6		
PCB-1254 (Aroclor 1254)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:49	11097-69-1		
PCB-1260 (Aroclor 1260)	ND mg/kg	0.11	0.053	1	06/03/14 14:30	06/04/14 08:49	11096-82-5		
Surrogates									
Tetrachloro-m-xylene (S)	55 %.	30-106			1	06/03/14 14:30	06/04/14 08:49	877-09-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	6.1 mg/kg	0.99	0.50	1	06/03/14 08:54	06/04/14 12:22	7440-38-2		
Barium	49.3 mg/kg	0.99	0.50	1	06/03/14 08:54	06/04/14 12:22	7440-39-3		
Cadmium	ND mg/kg	0.50	0.25	1	06/03/14 08:54	06/04/14 12:22	7440-43-9		
Chromium	8.0 mg/kg	0.99	0.50	1	06/03/14 08:54	06/04/14 12:22	7440-47-3		
Lead	5.7 mg/kg	0.99	0.50	1	06/03/14 08:54	06/04/14 12:22	7439-92-1		
Selenium	ND mg/kg	0.99	0.50	1	06/03/14 08:54	06/04/14 12:22	7782-49-2		
Silver	ND mg/kg	0.50	0.25	1	06/03/14 08:54	06/04/14 12:22	7440-22-4		
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg	0.22	0.19	1	06/11/14 10:47	06/11/14 14:15	7439-97-6		
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	83-32-9		
Acenaphthylene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	208-96-8		
Anthracene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	120-12-7		
Benzo(a)anthracene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	56-55-3		
Benzo(a)pyrene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	50-32-8		
Benzo(b)fluoranthene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	205-99-2		
Benzo(g,h,i)perylene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	191-24-2		
Benzo(k)fluoranthene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	207-08-9		
Chrysene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	53-70-3		
Fluoranthene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	206-44-0		
Fluorene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	86-73-7		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	193-39-5		
1-Methylnaphthalene	0.0030J mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	90-12-0	N2	
2-Methylnaphthalene	0.0033J mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	91-57-6		
Naphthalene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	91-20-3		
Phenanthrene	0.0052J mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	85-01-8		
Pyrene	ND mg/kg	0.0053	0.0027	1	06/03/14 13:25	06/04/14 15:07	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	70 %.	38-110			1	06/03/14 13:25	06/04/14 15:07	321-60-8	
p-Terphenyl-d14 (S)	61 %.	32-111			1	06/03/14 13:25	06/04/14 15:07	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: DUP01 **Lab ID: 5098489011** Collected: 05/28/14 08:00 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.077	0.039	1		06/09/14 10:56	67-64-1	
Acrolein	ND mg/kg		0.077	0.039	1		06/09/14 10:56	107-02-8	
Acrylonitrile	ND mg/kg		0.077	0.039	1		06/09/14 10:56	107-13-1	
Benzene	ND mg/kg		0.0039	0.00077	1		06/09/14 10:56	71-43-2	
Bromobenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	108-86-1	
Bromoform	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-27-4	
Bromomethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.019	0.0092	1		06/09/14 10:56	78-93-3	
n-Butylbenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	98-06-6	
Carbon disulfide	ND mg/kg		0.0077	0.0019	1		06/09/14 10:56	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	56-23-5	
Chlorobenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	108-90-7	
Chloroethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-00-3	
Chloroform	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	67-66-3	
Chloromethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	106-43-4	
Dibromochloromethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	106-93-4	
Dibromomethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.077	0.039	1		06/09/14 10:56	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0039	0.00077	1		06/09/14 10:56	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	10061-02-6	
Ethylbenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	100-41-4	
Ethyl methacrylate	ND mg/kg		0.077	0.039	1		06/09/14 10:56	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	87-68-3	
n-Hexane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	110-54-3	N2
2-Hexanone	ND mg/kg		0.077	0.039	1		06/09/14 10:56	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Sample: DUP01 **Lab ID: 5098489011** Collected: 05/28/14 08:00 Received: 05/29/14 07:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.077	0.039	1		06/09/14 10:56	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	99-87-6	
Methylene Chloride	ND mg/kg		0.015	0.0077	1		06/09/14 10:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.019	0.0092	1		06/09/14 10:56	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	103-65-1	
Styrene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	79-34-5	
Tetrachloroethene	ND mg/kg		0.0039	0.00077	1		06/09/14 10:56	127-18-4	
Toluene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	79-00-5	
Trichloroethene	ND mg/kg		0.0039	0.00077	1		06/09/14 10:56	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	108-67-8	
Vinyl acetate	ND mg/kg		0.077	0.039	1		06/09/14 10:56	108-05-4	
Vinyl chloride	ND mg/kg		0.0039	0.0019	1		06/09/14 10:56	75-01-4	
Xylene (Total)	ND mg/kg		0.0077	0.0039	1		06/09/14 10:56	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96 %.		85-118		1		06/09/14 10:56	1868-53-7	
Toluene-d8 (S)	112 %.		71-128		1		06/09/14 10:56	2037-26-5	
4-Bromofluorobenzene (S)	76 %.		56-144		1		06/09/14 10:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	7.5 %		0.10	0.10	1		06/04/14 16:23		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.1	0.72	1	06/05/14 06:45	06/06/14 10:45	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	8.0 mg/kg		1.0		1		06/06/14 13:36	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	MERP/5462	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011		

METHOD BLANK: 1108273 Matrix: Solid

Associated Lab Samples: 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009,
5098489010, 5098489011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	06/11/14 14:02	

LABORATORY CONTROL SAMPLE: 1108274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.50	101	80-120	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	MERP/5466	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5098489001		

METHOD BLANK: 1109493 Matrix: Solid

Associated Lab Samples: 5098489001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	06/13/14 10:09	

LABORATORY CONTROL SAMPLE: 1109494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109495 1109496

Parameter	Units	5098549014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.66	.65	0.81	0.78	105	102	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS



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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch: MPRP/13508 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 METT

Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011

METHOD BLANK: 1104316 Matrix: Solid

Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Arsenic	mg/kg	ND	1.0	06/04/14 11:24	
Barium	mg/kg	ND	1.0	06/04/14 11:24	
Cadmium	mg/kg	ND	0.50	06/04/14 11:24	
Chromium	mg/kg	ND	1.0	06/04/14 11:24	
Lead	mg/kg	ND	1.0	06/04/14 11:24	
Selenium	mg/kg	ND	1.0	06/04/14 11:24	
Silver	mg/kg	ND	0.50	06/04/14 11:24	

LABORATORY CONTROL SAMPLE: 1104317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.8	106	80-120	
Barium	mg/kg	50	53.6	107	80-120	
Cadmium	mg/kg	50	50.8	102	80-120	
Chromium	mg/kg	50	53.1	106	80-120	
Lead	mg/kg	50	52.2	104	80-120	
Selenium	mg/kg	50	51.2	102	80-120	
Silver	mg/kg	25	25.5	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104318 1104319

Parameter	Units	5098489001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max	
			Spike Conc.	Spike Conc.	MS Result	MSD Result				RPD	RPD
Arsenic	mg/kg	5.7	55.4	50.4	59.8	56.9	98	102	75-125	5	20
Barium	mg/kg	61.7	55.4	50.4	116	127	98	129	75-125	9	20 M0
Cadmium	mg/kg	ND	55.4	50.4	54.3	51.7	98	103	75-125	5	20
Chromium	mg/kg	997	55.4	50.4	1010	1140	30	278	75-125	11	20 P6
Lead	mg/kg	43.1	55.4	50.4	94.5	109	93	132	75-125	15	20 M0
Selenium	mg/kg	1.1	55.4	50.4	56.0	52.0	99	101	75-125	7	20
Silver	mg/kg	1.2	27.6	25.1	27.7	25.1	96	95	75-125	10	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	MSV/65562	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011		

METHOD BLANK: 1107656 Matrix: Solid

Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008,
5098489009, 5098489010, 5098489011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/09/14 01:10	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/09/14 01:10	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/09/14 01:10	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/09/14 01:10	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/09/14 01:10	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/09/14 01:10	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/09/14 01:10	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/09/14 01:10	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/09/14 01:10	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/09/14 01:10	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/09/14 01:10	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/09/14 01:10	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/09/14 01:10	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/09/14 01:10	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/09/14 01:10	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/09/14 01:10	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/09/14 01:10	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/09/14 01:10	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/09/14 01:10	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/09/14 01:10	
2-Butanone (MEK)	mg/kg	ND	0.025	06/09/14 01:10	
2-Chlorotoluene	mg/kg	ND	0.0050	06/09/14 01:10	
2-Hexanone	mg/kg	ND	0.10	06/09/14 01:10	
4-Chlorotoluene	mg/kg	ND	0.0050	06/09/14 01:10	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/09/14 01:10	
Acetone	mg/kg	ND	0.10	06/09/14 01:10	
Acrolein	mg/kg	ND	0.10	06/09/14 01:10	
Acrylonitrile	mg/kg	ND	0.10	06/09/14 01:10	
Benzene	mg/kg	ND	0.0050	06/09/14 01:10	
Bromobenzene	mg/kg	ND	0.0050	06/09/14 01:10	
Bromochloromethane	mg/kg	ND	0.0050	06/09/14 01:10	
Bromodichloromethane	mg/kg	ND	0.0050	06/09/14 01:10	
Bromoform	mg/kg	ND	0.0050	06/09/14 01:10	
Bromomethane	mg/kg	ND	0.0050	06/09/14 01:10	
Carbon disulfide	mg/kg	ND	0.010	06/09/14 01:10	
Carbon tetrachloride	mg/kg	ND	0.0050	06/09/14 01:10	
Chlorobenzene	mg/kg	ND	0.0050	06/09/14 01:10	
Chloroethane	mg/kg	ND	0.0050	06/09/14 01:10	
Chloroform	mg/kg	ND	0.0050	06/09/14 01:10	
Chloromethane	mg/kg	ND	0.0050	06/09/14 01:10	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

METHOD BLANK: 1107656

Matrix: Solid

Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008,
5098489009, 5098489010, 5098489011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/09/14 01:10	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/09/14 01:10	
Dibromochloromethane	mg/kg	ND	0.0050	06/09/14 01:10	
Dibromomethane	mg/kg	ND	0.0050	06/09/14 01:10	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/09/14 01:10	
Ethyl methacrylate	mg/kg	ND	0.10	06/09/14 01:10	
Ethylbenzene	mg/kg	ND	0.0050	06/09/14 01:10	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/09/14 01:10	
Iodomethane	mg/kg	ND	0.10	06/09/14 01:10	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/09/14 01:10	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/09/14 01:10	
Methylene Chloride	mg/kg	ND	0.020	06/09/14 01:10	
n-Butylbenzene	mg/kg	ND	0.0050	06/09/14 01:10	
n-Hexane	mg/kg	ND	0.0050	06/09/14 01:10	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/09/14 01:10	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/09/14 01:10	
sec-Butylbenzene	mg/kg	ND	0.0050	06/09/14 01:10	
Styrene	mg/kg	ND	0.0050	06/09/14 01:10	
tert-Butylbenzene	mg/kg	ND	0.0050	06/09/14 01:10	
Tetrachloroethene	mg/kg	ND	0.0050	06/09/14 01:10	
Toluene	mg/kg	ND	0.0050	06/09/14 01:10	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/09/14 01:10	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/09/14 01:10	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/09/14 01:10	
Trichloroethene	mg/kg	ND	0.0050	06/09/14 01:10	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/09/14 01:10	
Vinyl acetate	mg/kg	ND	0.10	06/09/14 01:10	
Vinyl chloride	mg/kg	ND	0.0050	06/09/14 01:10	
Xylene (Total)	mg/kg	ND	0.010	06/09/14 01:10	
4-Bromofluorobenzene (S)	%.	89	56-144	06/09/14 01:10	
Dibromofluoromethane (S)	%.	99	85-118	06/09/14 01:10	
Toluene-d8 (S)	%.	99	71-128	06/09/14 01:10	

LABORATORY CONTROL SAMPLE: 1107657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.041	83	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.044	88	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.039	77	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.044	87	74-129	
1,1-Dichloroethane	mg/kg	.05	0.046	91	73-130	
1,1-Dichloroethene	mg/kg	.05	0.051	101	66-126	
1,1-Dichloropropene	mg/kg	.05	0.044	88	78-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

LABORATORY CONTROL SAMPLE: 1107657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	.05	0.035	70	66-131	
1,2,3-Trichloropropane	mg/kg	.05	0.044	88	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.032	65	68-129 L0	
1,2,4-Trimethylbenzene	mg/kg	.05	0.041	82	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.045	90	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.041	82	73-122	
1,2-Dichloroethane	mg/kg	.05	0.043	86	73-127	
1,2-Dichloropropane	mg/kg	.05	0.043	87	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.041	82	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.041	81	73-121	
1,3-Dichloropropane	mg/kg	.05	0.042	83	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.040	79	75-119	
2,2-Dichloropropane	mg/kg	.05	0.037	74	63-122	
2-Butanone (MEK)	mg/kg	.25	0.19	74	59-139	
2-Chlorotoluene	mg/kg	.05	0.040	79	72-121	
2-Hexanone	mg/kg	.25	0.18	71	56-139	
4-Chlorotoluene	mg/kg	.05	0.041	82	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.19	76	63-136	
Acetone	mg/kg	.25	0.23	90	46-156	
Acrolein	mg/kg	1	0.69	69	47-200	
Acrylonitrile	mg/kg	1	0.85	85	67-130	
Benzene	mg/kg	.05	0.048	96	74-119	
Bromobenzene	mg/kg	.05	0.037	74	69-129	
Bromochloromethane	mg/kg	.05	0.034	69	67-129	
Bromodichloromethane	mg/kg	.05	0.042	83	68-121	
Bromoform	mg/kg	.05	0.035	70	49-124	
Bromomethane	mg/kg	.05	0.042	84	44-142	
Carbon disulfide	mg/kg	.1	0.11	113	61-129	
Carbon tetrachloride	mg/kg	.05	0.041	82	58-127	
Chlorobenzene	mg/kg	.05	0.043	86	77-122	
Chloroethane	mg/kg	.05	0.042	83	59-141	
Chloroform	mg/kg	.05	0.042	84	75-124	
Chloromethane	mg/kg	.05	0.029	58	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.045	91	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.038	76	68-115	
Dibromochloromethane	mg/kg	.05	0.041	82	60-121	
Dibromomethane	mg/kg	.05	0.044	89	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.040	81	26-186	
Ethyl methacrylate	mg/kg	.2	0.16	81	63-130	
Ethylbenzene	mg/kg	.05	0.044	87	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.034	68	55-139	
Iodomethane	mg/kg	.1	0.10	104	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.045	89	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.083	83	68-120	
Methylene Chloride	mg/kg	.05	0.034	69	57-142	
n-Butylbenzene	mg/kg	.05	0.037	74	68-125	
n-Hexane	mg/kg	.05	0.034	68	57-117 N2	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

LABORATORY CONTROL SAMPLE: 1107657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	mg/kg	.05	0.042	84	68-122	
p-Isopropyltoluene	mg/kg	.05	0.041	81	66-133	
sec-Butylbenzene	mg/kg	.05	0.043	87	64-131	
Styrene	mg/kg	.05	0.044	87	70-126	
tert-Butylbenzene	mg/kg	.05	0.037	74	46-124	
Tetrachloroethene	mg/kg	.05	0.040	80	72-126	
Toluene	mg/kg	.05	0.042	85	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.045	91	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.036	72	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.13	67	61-124	
Trichloroethene	mg/kg	.05	0.045	90	74-123	
Trichlorofluoromethane	mg/kg	.05	0.045	90	72-146	
Vinyl acetate	mg/kg	.2	0.13	63	57-131	
Vinyl chloride	mg/kg	.05	0.044	88	55-128	
Xylene (Total)	mg/kg	.15	0.13	89	66-124	
4-Bromofluorobenzene (S)	%			92	56-144	
Dibromofluoromethane (S)	%			99	85-118	
Toluene-d8 (S)	%			99	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1107658 1107659

Parameter	Units	MS 5098746022		MSD Spike		MS Result	MSD % Rec	MSD % Rec	% Rec Limits	Max	
		Result	Spike Conc.	Conc.	Result					RPD	RPD
1,1,1,2-Tetrachloroethane	mg/kg	ND	.042	.05	0.013	0.013	31	25	10-129	1	20
1,1,1-Trichloroethane	mg/kg	ND	.042	.05	0.028	0.034	67	69	26-143	20	20
1,1,2,2-Tetrachloroethane	mg/kg	ND	.042	.05	0.015	0.030	36	61	10-156	69	20
1,1,2-Trichloroethane	mg/kg	ND	.042	.05	0.020	0.021	48	41	13-156	4	20
1,1-Dichloroethane	mg/kg	ND	.042	.05	0.030	0.035	73	70	36-150	15	20
1,1-Dichloroethene	mg/kg	ND	.042	.05	0.039	0.047	92	94	31-146	20	20
1,1-Dichloropropene	mg/kg	ND	.042	.05	0.026	0.030	62	59	26-145	13	20
1,2,3-Trichlorobenzene	mg/kg	ND	.042	.05	0.0043	0.0098	10	20	10-119	79	20
1,2,3-Trichloropropane	mg/kg	ND	.042	.05	0.034	0.031	81	62	10-168	8	20
1,2,4-Trichlorobenzene	mg/kg	ND	.042	.05	0.0043	0.0094	10	19	10-122	74	20
1,2,4-Trimethylbenzene	mg/kg	ND	.042	.05	0.0099	0.012	24	24	10-139	21	20
1,2-Dibromoethane (EDB)	mg/kg	ND	.042	.05	0.019	0.019	44	37	15-136	0	20
1,2-Dichlorobenzene	mg/kg	ND	.042	.05	0.0090	0.012	21	24	10-132	29	20
1,2-Dichloroethane	mg/kg	ND	.042	.05	0.025	0.026	60	52	30-140	5	20
1,2-Dichloropropane	mg/kg	ND	.042	.05	0.021	0.023	51	46	29-135	10	20
1,3,5-Trimethylbenzene	mg/kg	ND	.042	.05	0.011	0.013	26	26	10-143	20	20
1,3-Dichlorobenzene	mg/kg	ND	.042	.05	0.0092	0.012	22	24	10-130	25	20
1,3-Dichloropropane	mg/kg	ND	.042	.05	0.020	0.020	47	40	17-139	3	20
1,4-Dichlorobenzene	mg/kg	ND	.042	.05	0.0088	0.011	21	22	10-128	21	20
2,2-Dichloropropane	mg/kg	ND	.042	.05	0.026	0.031	61	63	29-136	21	20
2-Butanone (MEK)	mg/kg	ND	.21	.26	0.14	0.16	65	64	22-176	17	20
2-Chlorotoluene	mg/kg	ND	.042	.05	0.012	0.013	29	25	10-146	6	20

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Parameter	Units	5098746022		MS		MSD		1107659				
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	% Rec	Max		Qual
										RPD	RPD	
2-Hexanone	mg/kg	ND	.21	.26	0.11	0.11	51	44	12-165	5	20	
4-Chlorotoluene	mg/kg	ND	.042	.05	0.012	0.011	28	22	10-138	3	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.21	.26	0.12	0.12	55	49	22-155	5	20	
Acetone	mg/kg	ND	.21	.26	0.28	0.37	134	148	11-200	28	20	
Acrolein	mg/kg	ND	.83	1	0.23	0.27	27	27	10-200	17	20	
Acrylonitrile	mg/kg	ND	.83	1	0.60	0.73	71	73	20-150	21	20	
Benzene	mg/kg	ND	.042	.05	0.026	0.028	63	56	27-140	7	20	
Bromobenzene	mg/kg	ND	.042	.05	0.0095	0.0088	23	17	10-133	7	20	
Bromoform	mg/kg	ND	.042	.05	0.021	0.024	51	48	28-142	14	20	
Bromochloromethane	mg/kg	ND	.042	.05	0.018	0.018	43	37	13-139	2	20	
Bromodichloromethane	mg/kg	ND	.042	.05	0.018	0.018	43	37	13-139	2	20	
Bromoform	mg/kg	ND	.042	.05	0.011	0.011	27	22	10-122	3	20	
Bromomethane	mg/kg	ND	.042	.05	0.026	0.035	61	70	10-154	32	20	
Carbon disulfide	mg/kg	ND	.083	.1	0.074	0.085	88	85	20-142	14	20	
Carbon tetrachloride	mg/kg	ND	.042	.05	0.025	0.030	60	59	19-135	17	20	
Chlorobenzene	mg/kg	ND	.042	.05	0.013	0.012	32	24	10-136	9	20	
Chloroethane	mg/kg	ND	.042	.05	0.035	0.044	85	88	24-161	22	20	
Chloroform	mg/kg	ND	.042	.05	0.024	0.027	59	54	36-138	10	20	
Chloromethane	mg/kg	ND	.042	.05	0.018	0.027	44	54	28-143	38	20	
cis-1,2-Dichloroethene	mg/kg	ND	.042	.05	0.027	0.029	64	57	29-136	8	20	
cis-1,3-Dichloropropene	mg/kg	ND	.042	.05	0.017	0.015	40	30	10-130	10	20	
Dibromochloromethane	mg/kg	ND	.042	.05	0.014	0.014	34	29	10-124	3	20	
Dibromomethane	mg/kg	ND	.042	.05	0.023	0.024	55	47	24-136	3	20	
Dichlorodifluoromethane	mg/kg	ND	.042	.05	0.036	0.050	87	100	15-187	31	20	2d
Ethyl methacrylate	mg/kg	ND	.17	.21	ND	ND	9	0	10-147	20	M0	
Ethylbenzene	mg/kg	ND	.042	.05	0.014	0.013	35	26	10-144	12	20	
Hexachloro-1,3-butadiene	mg/kg	ND	.042	.05	0.0041J	0.0085	10	17	10-136	20		
Iodomethane	mg/kg	ND	.083	.1	0.065J	0.086J	78	85	10-155	20		
Isopropylbenzene (Cumene)	mg/kg	ND	.042	.05	0.012	0.013	30	26	10-134	5	20	
Methyl-tert-butyl ether	mg/kg	ND	.083	.1	0.055	0.065	66	65	30-147	16	20	
Methylene Chloride	mg/kg	ND	.042	.05	0.022	0.022	53	43	23-150	3	20	
n-Butylbenzene	mg/kg	ND	.042	.05	0.0090	0.013	22	25	10-141	33	20	
n-Hexane	mg/kg	ND	.042	.05	0.027	0.036	64	72	10-140	31	20	N2
n-Propylbenzene	mg/kg	ND	.042	.05	0.013	0.013	30	27	10-143	6	20	
p-Isopropyltoluene	mg/kg	ND	.042	.05	0.0096	0.013	23	27	10-146	33	20	
sec-Butylbenzene	mg/kg	ND	.042	.05	0.011	0.014	25	29	10-150	30	20	
Styrene	mg/kg	ND	.042	.05	0.011	0.0099	26	20	10-138	11	20	
tert-Butylbenzene	mg/kg	ND	.042	.05	0.010	0.013	24	26	10-135	27	20	
Tetrachloroethene	mg/kg	ND	.042	.05	0.016	0.017	39	33	10-153	1	20	
Toluene	mg/kg	ND	.042	.05	0.019	0.018	45	35	10-140	5	20	
trans-1,2-Dichloroethene	mg/kg	ND	.042	.05	0.030	0.032	72	65	28-139	8	20	
trans-1,3-Dichloropropene	mg/kg	ND	.042	.05	0.014	0.013	34	26	10-126	7	20	
trans-1,4-Dichloro-2-butene	mg/kg	ND	.17	.21	0.057J	0.057J	34	29	10-132	20		
Trichloroethene	mg/kg	ND	.042	.05	0.023	0.022	55	45	17-148	1	20	
Trichlorofluoromethane	mg/kg	ND	.042	.05	0.038	0.051	91	102	31-177	29	20	
Vinyl acetate	mg/kg	ND	.17	.21	ND	ND	23	25	10-131	20		
Vinyl chloride	mg/kg	ND	.042	.05	0.037	0.046	90	92	30-145	21	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

Parameter	Units	5098746022	MS		MSD		MS		MSD		% Rec	Limits	Max	
			Spike Conc.	Result	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	RPD			RPD	Qual
Xylene (Total)	mg/kg	ND	.13	.15	0.041	0.037	32	25	10-143	10	20			
4-Bromofluorobenzene (S)	%.						88	90	56-144					
Dibromofluoromethane (S)	%.						100	99	85-118					
Toluene-d8 (S)	%.						102	101	71-128					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	OEXT/35985	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	5098489005		

METHOD BLANK: 1103741 Matrix: Solid

Associated Lab Samples: 5098489005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.10	06/04/14 13:27	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.10	06/04/14 13:27	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.10	06/04/14 13:27	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.10	06/04/14 13:27	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.10	06/04/14 13:27	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.10	06/04/14 13:27	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.10	06/04/14 13:27	
Tetrachloro-m-xylene (S)	%.	64	30-106	06/04/14 13:27	

LABORATORY CONTROL SAMPLE: 1103742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.17	0.12	75	42-100	
PCB-1260 (Aroclor 1260)	mg/kg	.17	0.14	83	40-106	
Tetrachloro-m-xylene (S)	%.			64	30-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103743 1103744

Parameter	Units	5098487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	ND	.19	.18	ND	ND	103	82	10-145	20	D3	
PCB-1260 (Aroclor 1260)	mg/kg	ND	.19	.18	0.62	0.51J	42	-13	16-132	20	M6	
Tetrachloro-m-xylene (S)	%.						70	71	30-106			

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	OEXT/35992	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	5098489001, 5098489002, 5098489003, 5098489004		

METHOD BLANK: 1103784 Matrix: Solid

Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.10	06/05/14 12:40	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.10	06/05/14 12:40	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.10	06/05/14 12:40	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.10	06/05/14 12:40	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.10	06/05/14 12:40	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.10	06/05/14 12:40	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.10	06/05/14 12:40	
Tetrachloro-m-xylene (S)	%.	68	30-106	06/05/14 12:40	

LABORATORY CONTROL SAMPLE: 1103785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.17	0.13	76	42-100	
PCB-1260 (Aroclor 1260)	mg/kg	.17	0.14	82	40-106	
Tetrachloro-m-xylene (S)	%.			72	30-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103786 1103787

Parameter	Units	5098489002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
PCB-1016 (Aroclor 1016)	mg/kg	ND	.19	.19	0.13	0.14	74	75	10-145	2	20	
PCB-1260 (Aroclor 1260)	mg/kg	ND	.19	.19	0.15	0.15	83	82	16-132	1	20	
Tetrachloro-m-xylene (S)	%.						67	70	30-106			

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	OEXT/36003	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011		

METHOD BLANK: 1104368 Matrix: Solid

Associated Lab Samples: 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.10	06/04/14 07:51	
Tetrachloro-m-xylene (S)	%.	69	30-106	06/04/14 07:51	

LABORATORY CONTROL SAMPLE: 1104369

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
PCB-1016 (Aroclor 1016)	mg/kg	.17	0.13	75	42-100	
PCB-1260 (Aroclor 1260)	mg/kg	.17	0.14	82	40-106	
Tetrachloro-m-xylene (S)	%.			70	30-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104370 1104371

Parameter	Units	MS 5098613001	MSD Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	Rec	Rec	RPD	RPD		
PCB-1016 (Aroclor 1016)	mg/kg	ND	.21	.21	0.13	0.10J	62	51	10-145	20		
PCB-1260 (Aroclor 1260)	mg/kg	ND	.21	.21	0.13	0.10J	63	50	16-132	20		
Tetrachloro-m-xylene (S)	%.						59	50	30-106			

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

QC Batch: OEXT/36009 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008,
5098489009, 5098489010, 5098489011

METHOD BLANK: 1104391 Matrix: Solid

Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011

Parameter	Units	Blank Result	Reporting		Qualifiers
			Limit	Analyzed	
1-Methylnaphthalene	mg/kg	ND	0.0050	06/04/14 08:09	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	06/04/14 08:09	
Acenaphthene	mg/kg	ND	0.0050	06/04/14 08:09	
Acenaphthylene	mg/kg	ND	0.0050	06/04/14 08:09	
Anthracene	mg/kg	ND	0.0050	06/04/14 08:09	
Benzo(a)anthracene	mg/kg	ND	0.0050	06/04/14 08:09	
Benzo(a)pyrene	mg/kg	ND	0.0050	06/04/14 08:09	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	06/04/14 08:09	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	06/04/14 08:09	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	06/04/14 08:09	
Chrysene	mg/kg	ND	0.0050	06/04/14 08:09	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	06/04/14 08:09	
Fluoranthene	mg/kg	ND	0.0050	06/04/14 08:09	
Fluorene	mg/kg	ND	0.0050	06/04/14 08:09	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	06/04/14 08:09	
Naphthalene	mg/kg	ND	0.0050	06/04/14 08:09	
Phenanthrene	mg/kg	ND	0.0050	06/04/14 08:09	
Pyrene	mg/kg	ND	0.0050	06/04/14 08:09	
2-Fluorobiphenyl (S)	%.	75	38-110	06/04/14 08:09	
p-Terphenyl-d14 (S)	%.	78	32-111	06/04/14 08:09	

LABORATORY CONTROL SAMPLE: 1104392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.23	70	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.21	63	39-104	
Acenaphthene	mg/kg	.33	0.23	68	43-108	
Acenaphthylene	mg/kg	.33	0.22	67	44-110	
Anthracene	mg/kg	.33	0.23	70	44-112	
Benzo(a)anthracene	mg/kg	.33	0.24	73	43-124	
Benzo(a)pyrene	mg/kg	.33	0.26	79	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.27	80	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.25	76	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.27	82	42-122	
Chrysene	mg/kg	.33	0.25	74	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.26	77	44-119	
Fluoranthene	mg/kg	.33	0.25	74	45-119	
Fluorene	mg/kg	.33	0.24	71	44-113	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

LABORATORY CONTROL SAMPLE: 1104392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.25	76	44-119	
Naphthalene	mg/kg	.33	0.20	60	42-103	
Phenanthrene	mg/kg	.33	0.23	70	44-113	
Pyrene	mg/kg	.33	0.23	68	45-123	
2-Fluorobiphenyl (S)	%.			66	38-110	
p-Terphenyl-d14 (S)	%.			67	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104393 1104394

Parameter	Units	5098478002		MS Spike Conc.		MSD Spike Conc.		MS Result		MSD Result		MS % Rec		MSD % Rec		% Rec Limits		Max RPD		Max RPD Qual	
		Result	Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result
1-Methylnaphthalene	mg/kg	ND	.37	.37	0.24	0.29	65	77	20-116	17	20	N2									
2-Methylnaphthalene	mg/kg	ND	.37	.37	0.23	0.26	61	70	10-131	14	20										
Acenaphthene	mg/kg	ND	.37	.37	0.22	0.27	59	74	25-117	22	20	R1									
Acenaphthylene	mg/kg	ND	.37	.37	0.23	0.27	62	73	27-123	16	20										
Anthracene	mg/kg	ND	.37	.37	0.21	0.27	55	72	20-123	26	20	R1									
Benzo(a)anthracene	mg/kg	ND	.37	.37	0.19	0.26	51	68	23-124	28	20	R1									
Benzo(a)pyrene	mg/kg	ND	.37	.37	0.19	0.26	51	69	23-120	29	20	R1									
Benzo(b)fluoranthene	mg/kg	ND	.37	.37	0.20	0.26	54	69	24-117	24	20	R1									
Benzo(g,h,i)perylene	mg/kg	ND	.37	.37	0.18	0.25	47	68	12-122	35	20	R1									
Benzo(k)fluoranthene	mg/kg	ND	.37	.37	0.20	0.27	53	72	14-123	29	20	R1									
Chrysene	mg/kg	ND	.37	.37	0.20	0.27	53	71	22-124	28	20	R1									
Dibenz(a,h)anthracene	mg/kg	ND	.37	.37	0.20	0.27	54	72	26-113	27	20	R1									
Fluoranthene	mg/kg	ND	.37	.37	0.21	0.26	56	69	21-125	21	20	R1									
Fluorene	mg/kg	ND	.37	.37	0.24	0.26	64	71	19-127	9	20										
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.37	.37	0.18	0.26	49	69	15-121	33	20	R1									
Naphthalene	mg/kg	ND	.37	.37	0.23	0.25	60	68	15-125	10	20										
Phenanthrene	mg/kg	ND	.37	.37	0.21	0.26	56	70	10-139	21	20	R1									
Pyrene	mg/kg	ND	.37	.37	0.20	0.26	52	68	17-132	26	20	R1									
2-Fluorobiphenyl (S)	%.									62	70	38-110									
p-Terphenyl-d14 (S)	%.									51	62	32-111									

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	PMST/9549	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	5098489001		

SAMPLE DUPLICATE: 1105017

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.6	16.2	2	5	

SAMPLE DUPLICATE: 1105018

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.5	15.7	11	5	R1

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	PMST/9550	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011		

SAMPLE DUPLICATE: 1105019

Parameter	Units	5098041004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.4	2.8	16	5	R1

SAMPLE DUPLICATE: 1105020

Parameter	Units	5098041005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	11.5	22	5	R1

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

QC Batch:	WET/16097	Analysis Method:	EPA 7196A
QC Batch Method:	EPA 3060A	Analysis Description:	7196 Chromium, Hexavalent
Associated Lab Samples:	5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011		

METHOD BLANK: 1105223 Matrix: Solid

Associated Lab Samples: 5098489001, 5098489002, 5098489003, 5098489004, 5098489005, 5098489006, 5098489007, 5098489008, 5098489009, 5098489010, 5098489011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.0	06/06/14 09:56	

LABORATORY CONTROL SAMPLE: 1105224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	985	1050	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105226 1105227

Parameter	Units	5098489002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	1070	1070	1090	1070	102	99	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105228 1105229

Parameter	Units	5098489002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	43.9	42.7	39.4	35.1	90	82	75-125	12	20	

SAMPLE DUPLICATE: 1105225

Parameter	Units	5098487001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	ND	20	

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QUALIFIERS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098489

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

- 1d Duplicate analysis performed on 6-12-14 confirms reported result. ddm 6-13-14
- 2d Multiple compounds are outside acceptance limits due to sample matrix. Refer to LCS for system control and data acceptability. JLZ 06/09/14.
- 4d Reported result may be biased high due to the presence of another co-eluting aroclor.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
- N2 The lab does not hold TNI accreditation for this parameter.
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- R1 RPD value was outside control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098489001	TP1(8-10')	EPA 3546	OEXT/35992	EPA 8082	GCSV/12599
5098489002	TP2(0-1')	EPA 3546	OEXT/35992	EPA 8082	GCSV/12599
5098489003	TP3(8-10')	EPA 3546	OEXT/35992	EPA 8082	GCSV/12599
5098489004	TP4(8-10')	EPA 3546	OEXT/35992	EPA 8082	GCSV/12599
5098489005	TP5(8-10')	EPA 3546	OEXT/35985	EPA 8082	GCSV/12598
5098489006	TP6(8-10')	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098489007	TP7(8-10')	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098489008	TP8(8-10')	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098489009	TP9(8-10')	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098489010	TP10(8-10')	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098489011	DUP01	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098489001	TP1(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489002	TP2(0-1')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489003	TP3(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489004	TP4(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489005	TP5(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489006	TP6(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489007	TP7(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489008	TP8(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489009	TP9(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489010	TP10(8-10')	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489011	DUP01	EPA 3050	MPRP/13508	EPA 6010	ICP/15687
5098489001	TP1(8-10')	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098489002	TP2(0-1')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489003	TP3(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489004	TP4(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489005	TP5(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489006	TP6(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489007	TP7(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489008	TP8(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489009	TP9(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489010	TP10(8-10')	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489011	DUP01	EPA 7471	MERP/5462	EPA 7471	MERC/5971
5098489001	TP1(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489002	TP2(0-1')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489003	TP3(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489004	TP4(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489005	TP5(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489006	TP6(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489007	TP7(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489008	TP8(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489009	TP9(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489010	TP10(8-10')	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489011	DUP01	EPA 3546	OEXT/36009	EPA 8270 by SIM	MSSV/15416
5098489001	TP1(8-10')	EPA 8260	MSV/65562		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098489

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098489002	TP2(0-1')	EPA 8260	MSV/65562		
5098489003	TP3(8-10')	EPA 8260	MSV/65562		
5098489004	TP4(8-10')	EPA 8260	MSV/65562		
5098489005	TP5(8-10')	EPA 8260	MSV/65562		
5098489006	TP6(8-10')	EPA 8260	MSV/65562		
5098489007	TP7(8-10')	EPA 8260	MSV/65562		
5098489008	TP8(8-10')	EPA 8260	MSV/65562		
5098489009	TP9(8-10')	EPA 8260	MSV/65562		
5098489010	TP10(8-10')	EPA 8260	MSV/65562		
5098489011	DUP01	EPA 8260	MSV/65562		
5098489001	TP1(8-10')	ASTM D2974-87	PMST/9549		
5098489002	TP2(0-1')	ASTM D2974-87	PMST/9550		
5098489003	TP3(8-10')	ASTM D2974-87	PMST/9550		
5098489004	TP4(8-10')	ASTM D2974-87	PMST/9550		
5098489005	TP5(8-10')	ASTM D2974-87	PMST/9550		
5098489006	TP6(8-10')	ASTM D2974-87	PMST/9550		
5098489007	TP7(8-10')	ASTM D2974-87	PMST/9550		
5098489008	TP8(8-10')	ASTM D2974-87	PMST/9550		
5098489009	TP9(8-10')	ASTM D2974-87	PMST/9550		
5098489010	TP10(8-10')	ASTM D2974-87	PMST/9550		
5098489011	DUP01	ASTM D2974-87	PMST/9550		
5098489001	TP1(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489002	TP2(0-1')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489003	TP3(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489004	TP4(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489005	TP5(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489006	TP6(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489007	TP7(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489008	TP8(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489009	TP9(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489010	TP10(8-10')	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489011	DUP01	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098489001	TP1(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489002	TP2(0-1')	Trivalent Chromium Calculation	WET/16037		
5098489003	TP3(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489004	TP4(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489005	TP5(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489006	TP6(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489007	TP7(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489008	TP8(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489009	TP9(8-10')	Trivalent Chromium Calculation	WET/16037		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cabot Corp / 067021.00.003.006
 Pace Project No.: 5098489

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098489010	TP10(8-10')	Trivalent Chromium Calculation	WET/16037		
5098489011	DUP01	Trivalent Chromium Calculation	WET/16037		

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:																																																																							
Company: Address: 5047 West 7th St Indianapolis, IN 46278		Report To: Chris Shaw Copy To: Purchase Order No.: Project Name: Cinholt Corp Project Number: 06702-00-003-006																																																																							
Email To: chris.shaw@smce-usa.com Phone: 317-706-1772 Fax: 317-603-2000 Requested Due Date/TAT: Normal		Invoice Information: Attention: Esther Busum's Company Name: Esther Busum's Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:																																																																							
Section D Required Client Information		Section C Invoice Information:																																																																							
SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE		# OF CONTAINERS SAMPLE TEMP AT COLLECTION																																																																							
ITEM #		<table border="1"> <thead> <tr> <th rowspan="2">Matrix Codes MATRIX / CODE</th> <th colspan="2">COLLECTED</th> <th colspan="2">Preservatives</th> <th rowspan="2"># OF CONTAINERS</th> </tr> <tr> <th>DW</th> <th>WT</th> <th>COMPOSITE ENDRAG</th> <th>Other DE Water</th> </tr> </thead> <tbody> <tr> <td>Drinking Water</td> <td>WT</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Water</td> <td>WW</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Waste Water</td> <td>P</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Product</td> <td>SL</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Sail/Solid</td> <td>OL</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Oil</td> <td>WP</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Wipe</td> <td>AR</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Air</td> <td>TS</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Tissue</td> <td>OT</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>		Matrix Codes MATRIX / CODE	COLLECTED		Preservatives		# OF CONTAINERS	DW	WT	COMPOSITE ENDRAG	Other DE Water	Drinking Water	WT				X	Water	WW				X	Waste Water	P				X	Product	SL				X	Sail/Solid	OL				X	Oil	WP				X	Wipe	AR				X	Air	TS				X	Tissue	OT				X	Other					X
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Air	TS				X																																																																				
Tissue	OT				X																																																																				
Other					X																																																																				
DATE		TIME		TIME																																																																					
5/28/14 1620		6		X X X X																																																																					
1712		1		X																																																																					
1515		1		X																																																																					
1436		1		X																																																																					
1321		1		X																																																																					
1400		1		X																																																																					
1153		1		X																																																																					
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1041		1		X																																																																					
0940		1		X																																																																					
-		1		X																																																																					
1211		1		X																																																																					
RELINQUISHED BY / AFFILIATION		DATE		TIME																																																																					
James Welsh / SME		5/29/14		7-30-14																																																																					
ADDITIONAL COMMENTS		ACCEPTED BY / AFFILIATION		DATE																																																																					
Page 61 of 63		Signature		Time																																																																					
Original		Laurie Welsh		7-30-14																																																																					
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY):																																																																					
ORIGINAL		Laurie Welsh		5/29/14																																																																					
Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and conditions to late payment of 1% per month.																																																																									
Samples intact (Y/N)																																																																									
Received on (C Date (Y/N)																																																																									
Customer Collector Sealed Container (Y/N)																																																																									
Page: 1687047 of 1																																																																									

Sample Condition Upon Receipt

PaceAnalytical

Client Name: SME

Project # 5298389

Courier: FedEx UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other *None for pers.*

Thermometer Used 1 2 3 4 5 A B C D E

Type of Ice: *Wet* Blue None

Samples on ice, cooling process has begun

Cooler Temperature

3.7°C

Ice Visible in Sample Containers:

yes no

Date/Time 5035A kits placed in freezer
5/29/14 8:00 am

(Corrected, if applicable)
Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: *5/29/14 ZJ*

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. <i>TC</i>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <i>Some visible water in jar. See below</i>
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9. (Circle) HNO3 H ₂ SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

& 2 jars TR-4, 1 Jar TP6, 1 Jar TR-9, 1 Jar ID Visible fluid

Project Manager Review:

Date: *5/29/14*

Sample Container Count

CLIENT: SMC

COC PAGE 1 of 1
COC ID# 1687047.

Project # 5D98489

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Sample Line

Item	DG9H	AG1U	VGFU	AG0U	R 4 / 6	BP2N	BP2U	BP3U	BP3N	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	pH <2	pH>12	Comments
1	2	2	4	4														
2	2	2	4	4														
3	2	2	4	4														
4	2	2	4	4														
5	2	2	4	4														
6	2	2	4	4														
7	2	2	4	4														
8	2	2	4	4														
9	2	2	4	4														
10	2	2	4	4														
11			2															
12																		

Container Codes

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
VGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic		1 Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio, clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfite amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DGSIM	40mL MeOH clear vial	ZPLC	Ziploc Bag

June 13, 2014

Mr. Chris Shaw
SME, Inc.
5847 W 74th Street
Indianapolis, IN 46278

RE: Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098523

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098523

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247

Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5098523001	SB1 (8-10)	Solid	05/29/14 10:24	05/30/14 08:39
5098523002	SB2 (5-7)	Solid	05/29/14 14:55	05/30/14 08:39
5098523003	SB2 (8-10)	Solid	05/29/14 11:03	05/30/14 08:39
5098523004	SB3 (21-23)	Solid	05/29/14 11:39	05/30/14 08:39
5098523005	SB4 (23-25)	Solid	05/29/14 12:19	05/30/14 08:39
5098523006	SB5 (8-10)	Solid	05/29/14 12:54	05/30/14 08:39
5098523007	SB6 (8-10)	Solid	05/29/14 14:43	05/30/14 08:39
5098523008	SB7 (8-10)	Solid	05/29/14 13:43	05/30/14 08:39
5098523009	SB8 (8-10)	Solid	05/29/14 13:18	05/30/14 08:39

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098523

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
5098523001	SB1 (8-10)	EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
5098523002	SB2 (5-7)	EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
5098523003	SB2 (8-10)	EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
5098523004	SB3 (21-23)	EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
5098523005	SB4 (23-25)	EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I

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SAMPLE ANALYTE COUNT

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098523

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5098523006	SB5 (8-10)	ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
5098523007	SB6 (8-10)	Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
5098523008	SB7 (8-10)	EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
5098523009	SB8 (8-10)	EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8260	BJG	72	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
		EPA 7196A	TPD	1	PASI-I

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB1 (8-10) Lab ID: 5098523001 Collected: 05/29/14 10:24 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		2.2	1.1	20	06/03/14 14:30	06/05/14 16:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		2.2	1.1	20	06/03/14 14:30	06/05/14 16:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		2.2	1.1	20	06/03/14 14:30	06/05/14 16:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		2.2	1.1	20	06/03/14 14:30	06/05/14 16:03	53469-21-9	
PCB-1248 (Aroclor 1248)	10.9 mg/kg		2.2	1.1	20	06/03/14 14:30	06/05/14 16:03	12672-29-6	2d
PCB-1254 (Aroclor 1254)	5.0 mg/kg		2.2	1.1	20	06/03/14 14:30	06/05/14 16:03	11097-69-1	2d
PCB-1260 (Aroclor 1260)	ND mg/kg		2.2	1.1	20	06/03/14 14:30	06/05/14 16:03	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0 %.		30-106		20	06/03/14 14:30	06/05/14 16:03	877-09-8	S4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	6.6 mg/kg		0.99	0.49	1	06/06/14 08:38	06/09/14 13:39	7440-38-2	
Barium	77.0 mg/kg		0.99	0.49	1	06/06/14 08:38	06/09/14 13:39	7440-39-3	
Cadmium	ND mg/kg		0.49	0.25	1	06/06/14 08:38	06/09/14 13:39	7440-43-9	
Chromium	664 mg/kg		0.99	0.49	1	06/06/14 08:38	06/09/14 13:39	7440-47-3	
Lead	47.4 mg/kg		0.99	0.49	1	06/06/14 08:38	06/09/14 13:39	7439-92-1	
Selenium	1.1 mg/kg		0.99	0.49	1	06/06/14 08:38	06/09/14 13:39	7782-49-2	
Silver	1.5 mg/kg		0.49	0.25	1	06/06/14 08:38	06/09/14 13:39	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	1.6 mg/kg		0.22	0.18	1	06/12/14 09:44	06/13/14 10:13	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	0.10 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	83-32-9	
Acenaphthylene	0.017J mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	208-96-8	
Anthracene	0.075 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	120-12-7	
Benzo(a)anthracene	0.10 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	56-55-3	
Benzo(a)pyrene	0.090 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	50-32-8	
Benzo(b)fluoranthene	0.088 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	205-99-2	
Benzo(g,h,i)perylene	0.060 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	191-24-2	
Benzo(k)fluoranthene	0.088 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	207-08-9	
Chrysene	0.13 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	53-70-3	
Fluoranthene	0.35 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	206-44-0	
Fluorene	0.092 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	86-73-7	
Indeno(1,2,3-cd)pyrene	0.052 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	193-39-5	
1-Methylnaphthalene	0.16 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	90-12-0	N2
2-Methylnaphthalene	0.21 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	91-57-6	
Naphthalene	0.89 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	91-20-3	P3
Phenanthrene	0.43 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	85-01-8	
Pyrene	0.26 mg/kg		0.028	0.014	1	06/04/14 11:34	06/05/14 18:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56 %.		38-110		1	06/04/14 11:34	06/05/14 18:09	321-60-8	
p-Terphenyl-d14 (S)	58 %.		32-111		1	06/04/14 11:34	06/05/14 18:09	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB1 (8-10) Lab ID: 5098523001 Collected: 05/29/14 10:24 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.35	mg/kg	0.091	0.046	1		06/10/14 06:55	67-64-1	
Acrolein	ND	mg/kg	0.091	0.046	1		06/10/14 06:55	107-02-8	
Acrylonitrile	ND	mg/kg	0.091	0.046	1		06/10/14 06:55	107-13-1	
Benzene	0.0030J	mg/kg	0.0046	0.00091	1		06/10/14 06:55	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	108-86-1	
Bromoform	ND	mg/kg	0.0046	0.0024	1		06/10/14 06:55	75-27-4	
Bromochloromethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	75-25-2	
Bromoform	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	0.011	1		06/10/14 06:55	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	98-06-6	
Carbon disulfide	0.0054J	mg/kg	0.0091	0.0047	1		06/10/14 06:55	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	108-90-7	
Chloroethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	75-00-3	
Chloroform	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	67-66-3	
Chloromethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.091	0.046	1		06/10/14 06:55	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	75-71-8	
1,1-Dichloroethane	0.0028J	mg/kg	0.0046	0.0023	1		06/10/14 06:55	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	0.0024	1		06/10/14 06:55	75-35-4	
cis-1,2-Dichloroethene	0.060	mg/kg	0.0046	0.0023	1		06/10/14 06:55	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	0.0025	1		06/10/14 06:55	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.091	0.046	1		06/10/14 06:55	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	87-68-3	
n-Hexane	ND	mg/kg	0.0046	0.0023	1		06/10/14 06:55	110-54-3	N2
2-Hexanone	ND	mg/kg	0.091	0.046	1		06/10/14 06:55	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB1 (8-10) Lab ID: **5098523001** Collected: 05/29/14 10:24 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.091	0.046	1		06/10/14 06:55	74-88-4	
Isopropylbenzene (Cumene)	0.020 mg/kg		0.0046	0.0023	1		06/10/14 06:55	98-82-8	
p-Isopropyltoluene	0.043 mg/kg		0.0046	0.0023	1		06/10/14 06:55	99-87-6	
Methylene Chloride	ND mg/kg		0.018	0.0091	1		06/10/14 06:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.023	0.011	1		06/10/14 06:55	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	103-65-1	
Styrene	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	79-34-5	
Tetrachloroethene	0.0076 mg/kg		0.0046	0.0012	1		06/10/14 06:55	127-18-4	
Toluene	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	79-00-5	
Trichloroethene	0.010 mg/kg		0.0046	0.00091	1		06/10/14 06:55	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	96-18-4	
1,2,4-Trimethylbenzene	0.0094 mg/kg		0.0046	0.0023	1		06/10/14 06:55	95-63-6	
1,3,5-Trimethylbenzene	0.0043J mg/kg		0.0046	0.0023	1		06/10/14 06:55	108-67-8	
Vinyl acetate	ND mg/kg		0.091	0.046	1		06/10/14 06:55	108-05-4	
Vinyl chloride	ND mg/kg		0.0046	0.0023	1		06/10/14 06:55	75-01-4	
Xylene (Total)	ND mg/kg		0.0091	0.0046	1		06/10/14 06:55	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99 %.		85-118		1		06/10/14 06:55	1868-53-7	
Toluene-d8 (S)	103 %.		71-128		1		06/10/14 06:55	2037-26-5	
4-Bromofluorobenzene (S)	97 %.		56-144		1		06/10/14 06:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.0 %		0.10	0.10	1		06/04/14 16:26		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.3	0.78	1	06/05/14 06:45	06/06/14 10:55	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	664 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB2 (5-7) Lab ID: 5098523002 Collected: 05/29/14 14:55 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:08	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:08	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0 %.		30-106		10	06/03/14 14:30	06/05/14 16:08	877-09-8	S4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	7.6 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:41	7440-38-2	
Barium	41.6 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:41	7440-39-3	
Cadmium	ND mg/kg		0.55	0.27	1	06/06/14 08:38	06/09/14 13:41	7440-43-9	
Chromium	11.3 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:41	7440-47-3	
Lead	6.1 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:41	7439-92-1	
Selenium	ND mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:41	7782-49-2	
Silver	ND mg/kg		0.55	0.27	1	06/06/14 08:38	06/09/14 13:41	7440-22-4	
7471 Mercury									
Mercury	ND mg/kg		0.21	0.18	1	06/12/14 09:44	06/13/14 10:15	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	83-32-9	
Acenaphthylene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	208-96-8	
Anthracene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	207-08-9	
Chrysene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	53-70-3	
Fluoranthene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	206-44-0	
Fluorene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	193-39-5	
1-Methylnaphthalene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	90-12-0	N2
2-Methylnaphthalene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	91-57-6	
Naphthalene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	91-20-3	
Phenanthrene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	85-01-8	
Pyrene	ND mg/kg		0.0055	0.0027	1	06/04/14 11:34	06/05/14 18:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81 %.		38-110		1	06/04/14 11:34	06/05/14 18:28	321-60-8	
p-Terphenyl-d14 (S)	65 %.		32-111		1	06/04/14 11:34	06/05/14 18:28	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB2 (5-7) Lab ID: 5098523002 Collected: 05/29/14 14:55 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.081	0.040	1		06/10/14 07:34	67-64-1	
Acrolein	ND mg/kg		0.081	0.040	1		06/10/14 07:34	107-02-8	
Acrylonitrile	ND mg/kg		0.081	0.040	1		06/10/14 07:34	107-13-1	
Benzene	ND mg/kg		0.0040	0.00081	1		06/10/14 07:34	71-43-2	
Bromobenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	108-86-1	
Bromoform	ND mg/kg		0.0040	0.0021	1		06/10/14 07:34	75-27-4	
Bromomethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.020	0.0097	1		06/10/14 07:34	78-93-3	
n-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	98-06-6	
Carbon disulfide	ND mg/kg		0.0081	0.0041	1		06/10/14 07:34	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	56-23-5	
Chlorobenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	108-90-7	
Chloroethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	75-00-3	
Chloroform	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	67-66-3	
Chloromethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	106-43-4	
Dibromochloromethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	106-93-4	
Dibromomethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.081	0.040	1		06/10/14 07:34	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0040	0.0021	1		06/10/14 07:34	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0040	0.0022	1		06/10/14 07:34	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	10061-02-6	
Ethylbenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	100-41-4	
Ethyl methacrylate	ND mg/kg		0.081	0.040	1		06/10/14 07:34	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	87-68-3	
n-Hexane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	110-54-3	N2
2-Hexanone	ND mg/kg		0.081	0.040	1		06/10/14 07:34	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB2 (5-7) Lab ID: **5098523002** Collected: 05/29/14 14:55 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.081	0.040	1		06/10/14 07:34	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	99-87-6	
Methylene Chloride	ND mg/kg		0.016	0.0081	1		06/10/14 07:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.020	0.0097	1		06/10/14 07:34	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	103-65-1	
Styrene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	79-34-5	
Tetrachloroethene	ND mg/kg		0.0040	0.0010	1		06/10/14 07:34	127-18-4	
Toluene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	79-00-5	
Trichloroethene	ND mg/kg		0.0040	0.00081	1		06/10/14 07:34	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	96-18-4	
1,2,4-Trimethylbenzene	0.0042 mg/kg		0.0040	0.0020	1		06/10/14 07:34	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	108-67-8	
Vinyl acetate	ND mg/kg		0.081	0.040	1		06/10/14 07:34	108-05-4	
Vinyl chloride	ND mg/kg		0.0040	0.0020	1		06/10/14 07:34	75-01-4	
Xylene (Total)	ND mg/kg		0.0081	0.0040	1		06/10/14 07:34	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	118 %.		85-118		1		06/10/14 07:34	1868-53-7	
Toluene-d8 (S)	105 %.		71-128		1		06/10/14 07:34	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		56-144		1		06/10/14 07:34	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	9.6 %		0.10	0.10	1		06/04/14 16:26		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.75	1	06/05/14 06:45	06/06/14 10:50	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	11.3 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB2 (8-10) Lab ID: 5098523003 Collected: 05/29/14 11:03 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		5.8	2.9	50	06/03/14 14:30	06/09/14 00:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		5.8	2.9	50	06/03/14 14:30	06/09/14 00:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		5.8	2.9	50	06/03/14 14:30	06/09/14 00:19	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		5.8	2.9	50	06/03/14 14:30	06/09/14 00:19	53469-21-9	
PCB-1248 (Aroclor 1248)	13.4 mg/kg		5.8	2.9	50	06/03/14 14:30	06/09/14 00:19	12672-29-6	2d
PCB-1254 (Aroclor 1254)	5.7J mg/kg		5.8	2.9	50	06/03/14 14:30	06/09/14 00:19	11097-69-1	2d
PCB-1260 (Aroclor 1260)	ND mg/kg		5.8	2.9	50	06/03/14 14:30	06/09/14 00:19	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0 %.		30-106		50	06/03/14 14:30	06/09/14 00:19	877-09-8	S4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	6.7 mg/kg		1.0	0.51	1	06/06/14 08:38	06/09/14 13:43	7440-38-2	
Barium	72.3 mg/kg		1.0	0.51	1	06/06/14 08:38	06/09/14 13:43	7440-39-3	
Cadmium	0.31J mg/kg		0.51	0.25	1	06/06/14 08:38	06/09/14 13:43	7440-43-9	
Chromium	633 mg/kg		1.0	0.51	1	06/06/14 08:38	06/09/14 13:43	7440-47-3	
Lead	43.0 mg/kg		1.0	0.51	1	06/06/14 08:38	06/09/14 13:43	7439-92-1	
Selenium	1.1 mg/kg		1.0	0.51	1	06/06/14 08:38	06/09/14 13:43	7782-49-2	
Silver	0.85 mg/kg		0.51	0.25	1	06/06/14 08:38	06/09/14 13:43	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	1.0 mg/kg		0.23	0.19	1	06/12/14 09:44	06/13/14 10:17	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	0.052 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	83-32-9	
Acenaphthylene	ND mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	208-96-8	
Anthracene	0.023J mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	120-12-7	
Benzo(a)anthracene	0.044 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	56-55-3	
Benzo(a)pyrene	0.039 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	50-32-8	
Benzo(b)fluoranthene	0.041 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	205-99-2	
Benzo(g,h,i)perylene	0.029 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	191-24-2	
Benzo(k)fluoranthene	0.040 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	207-08-9	
Chrysene	0.068 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	53-70-3	
Fluoranthene	0.15 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	206-44-0	
Fluorene	0.033 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	86-73-7	
Indeno(1,2,3-cd)pyrene	0.024J mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	193-39-5	
1-Methylnaphthalene	0.058 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	90-12-0	N2
2-Methylnaphthalene	0.090 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	91-57-6	
Naphthalene	0.12 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	91-20-3	1d
Phenanthrene	0.17 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	85-01-8	
Pyrene	0.11 mg/kg		0.029	0.014	5	06/04/14 11:34	06/05/14 18:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54 %.		38-110		5	06/04/14 11:34	06/05/14 18:46	321-60-8	
p-Terphenyl-d14 (S)	51 %.		32-111		5	06/04/14 11:34	06/05/14 18:46	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB2 (8-10) Lab ID: 5098523003 Collected: 05/29/14 11:03 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.084	0.042	1		06/11/14 03:18	67-64-1	
Acrolein	ND mg/kg		0.084	0.042	1		06/11/14 03:18	107-02-8	
Acrylonitrile	ND mg/kg		0.084	0.042	1		06/11/14 03:18	107-13-1	
Benzene	ND mg/kg		0.0042	0.00084	1		06/11/14 03:18	71-43-2	
Bromobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	108-86-1	
Bromoform	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-27-4	
Bromochloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	74-97-5	
Bromodichloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-25-2	
Bromoform	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.021	0.010	1		06/11/14 03:18	78-93-3	
n-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	98-06-6	
Carbon disulfide	0.0065J mg/kg		0.0084	0.0042	1		06/11/14 03:18	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	56-23-5	
Chlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	108-90-7	
Chloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-00-3	
Chloroform	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	67-66-3	
Chloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	106-43-4	
Dibromochloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	106-93-4	
Dibromomethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.084	0.042	1		06/11/14 03:18	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-71-8	
1,1-Dichloroethane	0.0035J mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-35-4	
cis-1,2-Dichloroethene	0.033 mg/kg		0.0042	0.0021	1		06/11/14 03:18	156-59-2	
trans-1,2-Dichloroethene	0.012 mg/kg		0.0042	0.0021	1		06/11/14 03:18	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	10061-02-6	
Ethylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	100-41-4	
Ethyl methacrylate	ND mg/kg		0.084	0.042	1		06/11/14 03:18	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	87-68-3	
n-Hexane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	110-54-3	N2
2-Hexanone	ND mg/kg		0.084	0.042	1		06/11/14 03:18	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB2 (8-10) **Lab ID: 5098523003** Collected: 05/29/14 11:03 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.084	0.042	1		06/11/14 03:18	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	99-87-6	
Methylene Chloride	ND mg/kg		0.017	0.0084	1		06/11/14 03:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.021	0.010	1		06/11/14 03:18	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	103-65-1	
Styrene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	79-34-5	
Tetrachloroethylene	0.0038J mg/kg		0.0042	0.0014	1		06/11/14 03:18	127-18-4	
Toluene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	79-00-5	
Trichloroethylene	0.013 mg/kg		0.0042	0.00084	1		06/11/14 03:18	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 03:18	108-67-8	
Vinyl acetate	ND mg/kg		0.084	0.042	1		06/11/14 03:18	108-05-4	
Vinyl chloride	0.0031J mg/kg		0.0042	0.0021	1		06/11/14 03:18	75-01-4	
Xylene (Total)	ND mg/kg		0.0084	0.0042	1		06/11/14 03:18	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	105 %.		85-118		1		06/11/14 03:18	1868-53-7	
Toluene-d8 (S)	115 %.		71-128		1		06/11/14 03:18	2037-26-5	
4-Bromofluorobenzene (S)	84 %.		56-144		1		06/11/14 03:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	13.6 %		0.10	0.10	1		06/04/14 16:26		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.3	0.79	1	06/05/14 06:45	06/06/14 10:43	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	633 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB3 (21-23) Lab ID: 5098523004 Collected: 05/29/14 11:39 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		2.3	1.1	20	06/03/14 14:30	06/05/14 16:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		2.3	1.1	20	06/03/14 14:30	06/05/14 16:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		2.3	1.1	20	06/03/14 14:30	06/05/14 16:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		2.3	1.1	20	06/03/14 14:30	06/05/14 16:20	53469-21-9	
PCB-1248 (Aroclor 1248)	11.2 mg/kg		2.3	1.1	20	06/03/14 14:30	06/05/14 16:20	12672-29-6	2d
PCB-1254 (Aroclor 1254)	4.9 mg/kg		2.3	1.1	20	06/03/14 14:30	06/05/14 16:20	11097-69-1	2d
PCB-1260 (Aroclor 1260)	ND mg/kg		2.3	1.1	20	06/03/14 14:30	06/05/14 16:20	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0 %.		30-106		20	06/03/14 14:30	06/05/14 16:20	877-09-8	S4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	6.1 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:45	7440-38-2	
Barium	62.7 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:45	7440-39-3	
Cadmium	ND mg/kg		0.55	0.28	1	06/06/14 08:38	06/09/14 13:45	7440-43-9	
Chromium	656 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:45	7440-47-3	
Lead	43.5 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:45	7439-92-1	
Selenium	1.2 mg/kg		1.1	0.55	1	06/06/14 08:38	06/09/14 13:45	7782-49-2	
Silver	1.1 mg/kg		0.55	0.28	1	06/06/14 08:38	06/09/14 13:45	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	1.8 mg/kg		0.23	0.20	1	06/12/14 09:44	06/13/14 10:19	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	0.090 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	83-32-9	
Acenaphthylene	ND mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	208-96-8	
Anthracene	0.046 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	120-12-7	
Benzo(a)anthracene	0.057 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	56-55-3	
Benzo(a)pyrene	0.050 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	50-32-8	
Benzo(b)fluoranthene	0.053 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	205-99-2	
Benzo(g,h,i)perylene	0.038 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	191-24-2	
Benzo(k)fluoranthene	0.055 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	207-08-9	
Chrysene	0.081 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	53-70-3	
Fluoranthene	0.25 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	206-44-0	
Fluorene	0.068 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	86-73-7	
Indeno(1,2,3-cd)pyrene	0.030 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	193-39-5	
1-Methylnaphthalene	0.12 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	90-12-0	N2
2-Methylnaphthalene	0.19 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	91-57-6	
Naphthalene	0.21 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	91-20-3	1d
Phenanthrene	0.33 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	85-01-8	
Pyrene	0.19 mg/kg		0.028	0.014	5	06/04/14 11:34	06/05/14 19:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60 %.		38-110		5	06/04/14 11:34	06/05/14 19:04	321-60-8	
p-Terphenyl-d14 (S)	75 %.		32-111		5	06/04/14 11:34	06/05/14 19:04	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB3 (21-23) Lab ID: 5098523004 Collected: 05/29/14 11:39 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.65	mg/kg	0.096	0.048	1		06/11/14 03:58	67-64-1	
Acrolein	ND	mg/kg	0.096	0.048	1		06/11/14 03:58	107-02-8	
Acrylonitrile	ND	mg/kg	0.096	0.048	1		06/11/14 03:58	107-13-1	
Benzene	0.0018J	mg/kg	0.0048	0.00096	1		06/11/14 03:58	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	108-86-1	
Bromoform	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	75-27-4	
Bromochloromethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	75-25-2	
Bromoform	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	0.012	1		06/11/14 03:58	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	98-06-6	
Carbon disulfide	0.010	mg/kg	0.0096	0.0048	1		06/11/14 03:58	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	108-90-7	
Chloroethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	75-00-3	
Chloroform	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	67-66-3	
Chloromethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	0.048	1		06/11/14 03:58	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	75-71-8	
1,1-Dichloroethane	0.0049	mg/kg	0.0048	0.0024	1		06/11/14 03:58	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	75-35-4	
cis-1,2-Dichloroethene	0.057	mg/kg	0.0048	0.0024	1		06/11/14 03:58	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.096	0.048	1		06/11/14 03:58	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	87-68-3	
n-Hexane	ND	mg/kg	0.0048	0.0024	1		06/11/14 03:58	110-54-3	N2
2-Hexanone	ND	mg/kg	0.096	0.048	1		06/11/14 03:58	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB3 (21-23) Lab ID: 5098523004 Collected: 05/29/14 11:39 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.096	0.048	1		06/11/14 03:58	74-88-4	
Isopropylbenzene (Cumene)	0.0037J mg/kg		0.0048	0.0024	1		06/11/14 03:58	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	99-87-6	
Methylene Chloride	ND mg/kg		0.019	0.0096	1		06/11/14 03:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.024	0.012	1		06/11/14 03:58	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	103-65-1	
Styrene	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	79-34-5	
Tetrachloroethylene	0.034 mg/kg		0.0048	0.0016	1		06/11/14 03:58	127-18-4	
Toluene	0.0027J mg/kg		0.0048	0.0024	1		06/11/14 03:58	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	79-00-5	
Trichloroethylene	0.018 mg/kg		0.0048	0.00096	1		06/11/14 03:58	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0048	0.0024	1		06/11/14 03:58	96-18-4	
1,2,4-Trimethylbenzene	0.0038J mg/kg		0.0048	0.0024	1		06/11/14 03:58	95-63-6	
1,3,5-Trimethylbenzene	0.0024J mg/kg		0.0048	0.0024	1		06/11/14 03:58	108-67-8	
Vinyl acetate	ND mg/kg		0.096	0.048	1		06/11/14 03:58	108-05-4	
Vinyl chloride	0.0026J mg/kg		0.0048	0.0024	1		06/11/14 03:58	75-01-4	
Xylene (Total)	ND mg/kg		0.0096	0.0048	1		06/11/14 03:58	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101 %.		85-118		1		06/11/14 03:58	1868-53-7	
Toluene-d8 (S)	114 %.		71-128		1		06/11/14 03:58	2037-26-5	
4-Bromofluorobenzene (S)	87 %.		56-144		1		06/11/14 03:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.7 %		0.10	0.10	1		06/04/14 16:38		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.77	1	06/05/14 06:45	06/06/14 10:53	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	656 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB4 (23-25) Lab ID: **5098523005** Collected: 05/29/14 12:19 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:26	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:26	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:26	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:26	53469-21-9	
PCB-1248 (Aroclor 1248)	5.4 mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:26	12672-29-6	2d
PCB-1254 (Aroclor 1254)	2.4 mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:26	11097-69-1	2d
PCB-1260 (Aroclor 1260)	ND mg/kg		1.1	0.55	10	06/03/14 14:30	06/05/14 16:26	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0 %.		30-106		10	06/03/14 14:30	06/05/14 16:26	877-09-8	S4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	5.1 mg/kg		0.94	0.47	1	06/06/14 08:38	06/09/14 13:47	7440-38-2	
Barium	54.4 mg/kg		0.94	0.47	1	06/06/14 08:38	06/09/14 13:47	7440-39-3	
Cadmium	ND mg/kg		0.47	0.24	1	06/06/14 08:38	06/09/14 13:47	7440-43-9	
Chromium	929 mg/kg		0.94	0.47	1	06/06/14 08:38	06/09/14 13:47	7440-47-3	
Lead	39.4 mg/kg		0.94	0.47	1	06/06/14 08:38	06/09/14 13:47	7439-92-1	
Selenium	1.6 mg/kg		0.94	0.47	1	06/06/14 08:38	06/09/14 13:47	7782-49-2	
Silver	0.63 mg/kg		0.47	0.24	1	06/06/14 08:38	06/09/14 13:47	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	3.3 mg/kg		0.44	0.37	2	06/12/14 09:44	06/13/14 12:09	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	0.089 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	83-32-9	
Acenaphthylene	ND mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	208-96-8	
Anthracene	0.061 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	120-12-7	
Benzo(a)anthracene	0.14 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	56-55-3	
Benzo(a)pyrene	0.13 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	50-32-8	
Benzo(b)fluoranthene	0.12 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	205-99-2	
Benzo(g,h,i)perylene	0.089 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	191-24-2	
Benzo(k)fluoranthene	0.12 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	207-08-9	
Chrysene	0.19 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	218-01-9	
Dibenz(a,h)anthracene	0.038 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	53-70-3	
Fluoranthene	0.38 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	206-44-0	
Fluorene	0.056 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	86-73-7	
Indeno(1,2,3-cd)pyrene	0.067 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	193-39-5	
1-Methylnaphthalene	0.076 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	90-12-0	N2
2-Methylnaphthalene	0.10 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	91-57-6	
Naphthalene	0.13 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	91-20-3	1d
Phenanthrene	0.37 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	85-01-8	
Pyrene	0.28 mg/kg		0.027	0.014	5	06/04/14 11:34	06/05/14 19:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68 %.		38-110		5	06/04/14 11:34	06/05/14 19:22	321-60-8	
p-Terphenyl-d14 (S)	71 %.		32-111		5	06/04/14 11:34	06/05/14 19:22	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB4 (23-25) Lab ID: 5098523005 Collected: 05/29/14 12:19 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.39 mg/kg		0.084	0.042	1		06/11/14 04:37	67-64-1	
Acrolein	ND mg/kg		0.084	0.042	1		06/11/14 04:37	107-02-8	
Acrylonitrile	ND mg/kg		0.084	0.042	1		06/11/14 04:37	107-13-1	
Benzene	ND mg/kg		0.0042	0.00084	1		06/11/14 04:37	71-43-2	
Bromobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	108-86-1	
Bromoform	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	75-27-4	
Bromochloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	74-97-5	
Bromodichloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	75-25-2	
Bromoform	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.021	0.010	1		06/11/14 04:37	78-93-3	
n-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	98-06-6	
Carbon disulfide	0.0072J mg/kg		0.0084	0.0042	1		06/11/14 04:37	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	56-23-5	
Chlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	108-90-7	
Chloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	75-00-3	
Chloroform	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	67-66-3	
Chloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	106-43-4	
Dibromochloromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	106-93-4	
Dibromomethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.084	0.042	1		06/11/14 04:37	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	75-71-8	
1,1-Dichloroethane	0.0027J mg/kg		0.0042	0.0021	1		06/11/14 04:37	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	75-35-4	
cis-1,2-Dichloroethene	0.025 mg/kg		0.0042	0.0021	1		06/11/14 04:37	156-59-2	
trans-1,2-Dichloroethene	0.0025J mg/kg		0.0042	0.0021	1		06/11/14 04:37	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	10061-02-6	
Ethylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	100-41-4	
Ethyl methacrylate	ND mg/kg		0.084	0.042	1		06/11/14 04:37	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	87-68-3	
n-Hexane	ND mg/kg		0.0042	0.0021	1		06/11/14 04:37	110-54-3	N2
2-Hexanone	ND mg/kg		0.084	0.042	1		06/11/14 04:37	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB4 (23-25) Lab ID: 5098523005 Collected: 05/29/14 12:19 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg	0.084	0.042	1			06/11/14 04:37	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	98-82-8	
p-Isopropyltoluene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	99-87-6	
Methylene Chloride	ND mg/kg	0.017	0.0084	1			06/11/14 04:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg	0.021	0.010	1			06/11/14 04:37	108-10-1	
Methyl-tert-butyl ether	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	1634-04-4	
n-Propylbenzene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	103-65-1	
Styrene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	79-34-5	
Tetrachloroethene	0.015 mg/kg	0.0042	0.0014	1			06/11/14 04:37	127-18-4	
Toluene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	120-82-1	
1,1,1-Trichloroethane	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	71-55-6	
1,1,2-Trichloroethane	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	79-00-5	
Trichloroethene	0.014 mg/kg	0.0042	0.00084	1			06/11/14 04:37	79-01-6	
Trichlorofluoromethane	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	75-69-4	
1,2,3-Trichloropropane	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg	0.0042	0.0021	1			06/11/14 04:37	108-67-8	
Vinyl acetate	ND mg/kg	0.084	0.042	1			06/11/14 04:37	108-05-4	
Vinyl chloride	0.0022J mg/kg	0.0042	0.0021	1			06/11/14 04:37	75-01-4	
Xylene (Total)	ND mg/kg	0.0084	0.0042	1			06/11/14 04:37	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	105 %.	85-118		1			06/11/14 04:37	1868-53-7	
Toluene-d8 (S)	117 %.	71-128		1			06/11/14 04:37	2037-26-5	
4-Bromofluorobenzene (S)	81 %.	56-144		1			06/11/14 04:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.7 %	0.10	0.10	1			06/04/14 16:38		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg	2.1	0.74	1	06/05/14 06:45	06/06/14 10:53	18540-29-9		
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	929 mg/kg	1.0		1			06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB5 (8-10) Lab ID: **5098523006** Collected: 05/29/14 12:54 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		1.1	0.56	10	06/03/14 14:30	06/05/14 16:32	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND mg/kg		1.1	0.56	10	06/03/14 14:30	06/05/14 16:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		1.1	0.56	10	06/03/14 14:30	06/05/14 16:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		1.1	0.56	10	06/03/14 14:30	06/05/14 16:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		1.1	0.56	10	06/03/14 14:30	06/05/14 16:32	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		1.1	0.56	10	06/03/14 14:30	06/05/14 16:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		1.1	0.56	10	06/03/14 14:30	06/05/14 16:32	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0 %.		30-106		10	06/03/14 14:30	06/05/14 16:32	877-09-8	S4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	8.6 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:53	7440-38-2	
Barium	32.7 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:53	7440-39-3	
Cadmium	ND mg/kg		0.53	0.27	1	06/06/14 08:38	06/09/14 13:53	7440-43-9	
Chromium	10.1 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:53	7440-47-3	
Lead	7.8 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:53	7439-92-1	
Selenium	ND mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:53	7782-49-2	
Silver	ND mg/kg		0.53	0.27	1	06/06/14 08:38	06/09/14 13:53	7440-22-4	
7471 Mercury									
Mercury	ND mg/kg		0.23	0.20	1	06/12/14 09:44	06/13/14 10:23	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	83-32-9	
Acenaphthylene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	208-96-8	
Anthracene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	207-08-9	
Chrysene	0.0066 mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	53-70-3	
Fluoranthene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	206-44-0	
Fluorene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	193-39-5	
1-Methylnaphthalene	0.0046J mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	90-12-0	N2
2-Methylnaphthalene	0.0053J mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	91-57-6	
Naphthalene	ND mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	91-20-3	
Phenanthrene	0.012 mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	85-01-8	
Pyrene	0.0032J mg/kg		0.0057	0.0028	1	06/04/14 11:34	06/05/14 19:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83 %.		38-110		1	06/04/14 11:34	06/05/14 19:40	321-60-8	
p-Terphenyl-d14 (S)	70 %.		32-111		1	06/04/14 11:34	06/05/14 19:40	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB5 (8-10) Lab ID: 5098523006 Collected: 05/29/14 12:54 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.080	0.040	1		06/11/14 05:17	67-64-1	
Acrolein	ND mg/kg		0.080	0.040	1		06/11/14 05:17	107-02-8	
Acrylonitrile	ND mg/kg		0.080	0.040	1		06/11/14 05:17	107-13-1	
Benzene	ND mg/kg		0.0040	0.00080	1		06/11/14 05:17	71-43-2	
Bromobenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	108-86-1	
Bromoform	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-27-4	
Bromochloromethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	74-97-5	
Bromodichloromethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-25-2	
Bromoform	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.020	0.0096	1		06/11/14 05:17	78-93-3	
n-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	98-06-6	
Carbon disulfide	ND mg/kg		0.0080	0.0040	1		06/11/14 05:17	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	56-23-5	
Chlorobenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	108-90-7	
Chloroethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-00-3	
Chloroform	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	67-66-3	
Chloromethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	106-43-4	
Dibromochloromethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	106-93-4	
Dibromomethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.080	0.040	1		06/11/14 05:17	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	10061-02-6	
Ethylbenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	100-41-4	
Ethyl methacrylate	ND mg/kg		0.080	0.040	1		06/11/14 05:17	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	87-68-3	
n-Hexane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	110-54-3	N2
2-Hexanone	ND mg/kg		0.080	0.040	1		06/11/14 05:17	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB5 (8-10) **Lab ID: 5098523006** Collected: 05/29/14 12:54 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.080	0.040	1		06/11/14 05:17	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	99-87-6	
Methylene Chloride	ND mg/kg		0.016	0.0080	1		06/11/14 05:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.020	0.0096	1		06/11/14 05:17	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	103-65-1	
Styrene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	79-34-5	
Tetrachloroethene	ND mg/kg		0.0040	0.0014	1		06/11/14 05:17	127-18-4	
Toluene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	79-00-5	
Trichloroethene	ND mg/kg		0.0040	0.00080	1		06/11/14 05:17	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	108-67-8	
Vinyl acetate	ND mg/kg		0.080	0.040	1		06/11/14 05:17	108-05-4	
Vinyl chloride	ND mg/kg		0.0040	0.0020	1		06/11/14 05:17	75-01-4	
Xylene (Total)	ND mg/kg		0.0080	0.0040	1		06/11/14 05:17	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	106 %.		85-118		1		06/11/14 05:17	1868-53-7	
Toluene-d8 (S)	109 %.		71-128		1		06/11/14 05:17	2037-26-5	
4-Bromofluorobenzene (S)	91 %.		56-144		1		06/11/14 05:17	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.0 %		0.10	0.10	1		06/04/14 16:38		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.76	1	06/05/14 06:45	06/06/14 10:54	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	10.1 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB6 (8-10) Lab ID: **5098523007** Collected: 05/29/14 14:43 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.055	1	06/03/14 14:30	06/04/14 09:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.055	1	06/03/14 14:30	06/04/14 09:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.055	1	06/03/14 14:30	06/04/14 09:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.055	1	06/03/14 14:30	06/04/14 09:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.055	1	06/03/14 14:30	06/04/14 09:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.055	1	06/03/14 14:30	06/04/14 09:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.055	1	06/03/14 14:30	06/04/14 09:30	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	68 %.		30-106		1	06/03/14 14:30	06/04/14 09:30	877-09-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	6.4 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:55	7440-38-2	
Barium	40.0 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:55	7440-39-3	
Cadmium	ND mg/kg		0.48	0.24	1	06/06/14 08:38	06/09/14 13:55	7440-43-9	
Chromium	8.2 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:55	7440-47-3	
Lead	6.8 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:55	7439-92-1	
Selenium	ND mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:55	7782-49-2	
Silver	ND mg/kg		0.48	0.24	1	06/06/14 08:38	06/09/14 13:55	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.23	0.20	1	06/12/14 09:44	06/13/14 10:25	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	83-32-9	
Acenaphthylene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	208-96-8	
Anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	205-99-2	
Benzo(g,h,i)perylene	0.0030J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	207-08-9	
Chrysene	0.0059 mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	53-70-3	
Fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	206-44-0	
Fluorene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	193-39-5	
1-Methylnaphthalene	0.0039J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	90-12-0	N2
2-Methylnaphthalene	0.0036J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	91-57-6	
Naphthalene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	91-20-3	
Phenanthrene	0.0079 mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	85-01-8	
Pyrene	0.0038J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 19:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76 %.		38-110		1	06/04/14 11:34	06/05/14 19:58	321-60-8	
p-Terphenyl-d14 (S)	82 %.		32-111		1	06/04/14 11:34	06/05/14 19:58	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB6 (8-10) Lab ID: 5098523007 Collected: 05/29/14 14:43 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.044J	mg/kg	0.083	0.042	1		06/11/14 05:56	67-64-1	
Acrolein	ND	mg/kg	0.083	0.042	1		06/11/14 05:56	107-02-8	
Acrylonitrile	ND	mg/kg	0.083	0.042	1		06/11/14 05:56	107-13-1	
Benzene	ND	mg/kg	0.0042	0.00083	1		06/11/14 05:56	71-43-2	
Bromobenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	108-86-1	
Bromoform	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	75-27-4	
Bromomethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	75-25-2	
2-Butanone (MEK)	ND	mg/kg	0.021	0.010	1		06/11/14 05:56	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	98-06-6	
Carbon disulfide	ND	mg/kg	0.0083	0.0042	1		06/11/14 05:56	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	108-90-7	
Chloroethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	75-00-3	
Chloroform	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	67-66-3	
Chloromethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	106-93-4	
Dibromomethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.083	0.042	1		06/11/14 05:56	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.083	0.042	1		06/11/14 05:56	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	87-68-3	
n-Hexane	ND	mg/kg	0.0042	0.0021	1		06/11/14 05:56	110-54-3	N2
2-Hexanone	ND	mg/kg	0.083	0.042	1		06/11/14 05:56	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB6 (8-10) **Lab ID: 5098523007** Collected: 05/29/14 14:43 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.083	0.042	1		06/11/14 05:56	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	99-87-6	
Methylene Chloride	ND mg/kg		0.017	0.0083	1		06/11/14 05:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.021	0.010	1		06/11/14 05:56	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	103-65-1	
Styrene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	79-34-5	
Tetrachloroethene	ND mg/kg		0.0042	0.0014	1		06/11/14 05:56	127-18-4	
Toluene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	79-00-5	
Trichloroethene	ND mg/kg		0.0042	0.00083	1		06/11/14 05:56	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	108-67-8	
Vinyl acetate	ND mg/kg		0.083	0.042	1		06/11/14 05:56	108-05-4	
Vinyl chloride	ND mg/kg		0.0042	0.0021	1		06/11/14 05:56	75-01-4	
Xylene (Total)	ND mg/kg		0.0083	0.0042	1		06/11/14 05:56	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	106 %.		85-118		1		06/11/14 05:56	1868-53-7	
Toluene-d8 (S)	118 %.		71-128		1		06/11/14 05:56	2037-26-5	
4-Bromofluorobenzene (S)	79 %.		56-144		1		06/11/14 05:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.6 %		0.10	0.10	1		06/04/14 16:38		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.75	1	06/09/14 06:49	06/10/14 09:34	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	8.2 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB7 (8-10) Lab ID: **5098523008** Collected: 05/29/14 13:43 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:36	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:36	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:36	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	61 %.		30-106		1	06/03/14 14:30	06/04/14 09:36	877-09-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	7.0 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:57	7440-38-2	
Barium	55.2 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:57	7440-39-3	
Cadmium	ND mg/kg		0.53	0.26	1	06/06/14 08:38	06/09/14 13:57	7440-43-9	
Chromium	10.5 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:57	7440-47-3	
Lead	6.9 mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:57	7439-92-1	
Selenium	ND mg/kg		1.1	0.53	1	06/06/14 08:38	06/09/14 13:57	7782-49-2	
Silver	ND mg/kg		0.53	0.26	1	06/06/14 08:38	06/09/14 13:57	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.21	0.18	1	06/12/14 09:44	06/13/14 10:27	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	83-32-9	
Acenaphthylene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	208-96-8	
Anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	205-99-2	
Benzo(g,h,i)perylene	0.0037J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	207-08-9	
Chrysene	0.0077 mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	53-70-3	
Fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	206-44-0	
Fluorene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	193-39-5	
1-Methylnaphthalene	0.0076 mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	90-12-0	N2
2-Methylnaphthalene	0.0082 mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	91-57-6	
Naphthalene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	91-20-3	
Phenanthrene	0.016 mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	85-01-8	
Pyrene	0.0038J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82 %.		38-110		1	06/04/14 11:34	06/05/14 20:16	321-60-8	
p-Terphenyl-d14 (S)	79 %.		32-111		1	06/04/14 11:34	06/05/14 20:16	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB7 (8-10) Lab ID: 5098523008 Collected: 05/29/14 13:43 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND mg/kg		0.076	0.038	1		06/11/14 06:36	67-64-1	
Acrolein	ND mg/kg		0.076	0.038	1		06/11/14 06:36	107-02-8	
Acrylonitrile	ND mg/kg		0.076	0.038	1		06/11/14 06:36	107-13-1	
Benzene	ND mg/kg		0.0038	0.00076	1		06/11/14 06:36	71-43-2	
Bromobenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	108-86-1	
Bromoform	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-27-4	
Bromomethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-25-2	
2-Butanone (MEK)	ND mg/kg		0.019	0.0091	1		06/11/14 06:36	78-93-3	
n-Butylbenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	104-51-8	
sec-Butylbenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	135-98-8	
tert-Butylbenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	98-06-6	
Carbon disulfide	ND mg/kg		0.0076	0.0038	1		06/11/14 06:36	75-15-0	
Carbon tetrachloride	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	56-23-5	
Chlorobenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	108-90-7	
Chloroethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-00-3	
Chloroform	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	67-66-3	
Chloromethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	74-87-3	
2-Chlorotoluene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	95-49-8	
4-Chlorotoluene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	106-43-4	
Dibromochloromethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	106-93-4	
Dibromomethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND mg/kg		0.076	0.038	1		06/11/14 06:36	110-57-6	
Dichlorodifluoromethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	156-60-5	
1,2-Dichloropropane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	10061-02-6	
Ethylbenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	100-41-4	
Ethyl methacrylate	ND mg/kg		0.076	0.038	1		06/11/14 06:36	97-63-2	
Hexachloro-1,3-butadiene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	87-68-3	
n-Hexane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	110-54-3	N2
2-Hexanone	ND mg/kg		0.076	0.038	1		06/11/14 06:36	591-78-6	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB7 (8-10) **Lab ID: 5098523008** Collected: 05/29/14 13:43 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.076	0.038	1		06/11/14 06:36	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	99-87-6	
Methylene Chloride	ND mg/kg		0.015	0.0076	1		06/11/14 06:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.019	0.0091	1		06/11/14 06:36	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	103-65-1	
Styrene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	79-34-5	
Tetrachloroethene	ND mg/kg		0.0038	0.0013	1		06/11/14 06:36	127-18-4	
Toluene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	79-00-5	
Trichloroethene	ND mg/kg		0.0038	0.00076	1		06/11/14 06:36	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	108-67-8	
Vinyl acetate	ND mg/kg		0.076	0.038	1		06/11/14 06:36	108-05-4	
Vinyl chloride	ND mg/kg		0.0038	0.0019	1		06/11/14 06:36	75-01-4	
Xylene (Total)	ND mg/kg		0.0076	0.0038	1		06/11/14 06:36	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	109 %.		85-118		1		06/11/14 06:36	1868-53-7	
Toluene-d8 (S)	147 %.		71-128		1		06/11/14 06:36	2037-26-5	S3
4-Bromofluorobenzene (S)	64 %.		56-144		1		06/11/14 06:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	7.4 %		0.10	0.10	1		06/04/14 16:38		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.2	0.74	1	06/09/14 06:49	06/10/14 09:36	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	10.5 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB8 (8-10) Lab ID: **5098523009** Collected: 05/29/14 13:18 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:41	12672-29-6	
PCB-1254 (Aroclor 1254)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:41	11097-69-1	
PCB-1260 (Aroclor 1260)	ND mg/kg		0.11	0.054	1	06/03/14 14:30	06/04/14 09:41	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	64 %.		30-106		1	06/03/14 14:30	06/04/14 09:41	877-09-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	6.8 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:59	7440-38-2	
Barium	45.1 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:59	7440-39-3	
Cadmium	0.24J mg/kg		0.48	0.24	1	06/06/14 08:38	06/09/14 13:59	7440-43-9	
Chromium	8.4 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:59	7440-47-3	
Lead	6.4 mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:59	7439-92-1	
Selenium	ND mg/kg		0.95	0.48	1	06/06/14 08:38	06/09/14 13:59	7782-49-2	
Silver	ND mg/kg		0.48	0.24	1	06/06/14 08:38	06/09/14 13:59	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND mg/kg		0.22	0.19	1	06/12/14 09:44	06/13/14 10:34	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	83-32-9	
Acenaphthylene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	208-96-8	
Anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	120-12-7	
Benzo(a)anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	207-08-9	
Chrysene	0.0029J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	53-70-3	
Fluoranthene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	206-44-0	
Fluorene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	193-39-5	
1-Methylnaphthalene	0.0028J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	90-12-0	N2
2-Methylnaphthalene	0.0028J mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	91-57-6	
Naphthalene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	91-20-3	
Phenanthrene	0.0053 mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	85-01-8	
Pyrene	ND mg/kg		0.0054	0.0027	1	06/04/14 11:34	06/05/14 20:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	94 %.		38-110		1	06/04/14 11:34	06/05/14 20:34	321-60-8	
p-Terphenyl-d14 (S)	76 %.		32-111		1	06/04/14 11:34	06/05/14 20:34	1718-51-0	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB8 (8-10) Lab ID: 5098523009 Collected: 05/29/14 13:18 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.24	mg/kg	0.075	0.037	1		06/11/14 07:15	67-64-1	
Acrolein	ND	mg/kg	0.075	0.037	1		06/11/14 07:15	107-02-8	
Acrylonitrile	ND	mg/kg	0.075	0.037	1		06/11/14 07:15	107-13-1	
Benzene	ND	mg/kg	0.0037	0.00075	1		06/11/14 07:15	71-43-2	
Bromobenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	108-86-1	
Bromoform	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	75-27-4	
Bromomethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	75-25-2	
2-Butanone (MEK)	ND	mg/kg	0.019	0.0090	1		06/11/14 07:15	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	98-06-6	
Carbon disulfide	ND	mg/kg	0.0075	0.0037	1		06/11/14 07:15	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	56-23-5	
Chlorobenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	108-90-7	
Chloroethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	75-00-3	
Chloroform	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	67-66-3	
Chloromethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	106-93-4	
Dibromomethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.075	0.037	1		06/11/14 07:15	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.075	0.037	1		06/11/14 07:15	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	87-68-3	
n-Hexane	ND	mg/kg	0.0037	0.0019	1		06/11/14 07:15	110-54-3	N2
2-Hexanone	ND	mg/kg	0.075	0.037	1		06/11/14 07:15	591-78-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

Sample: SB8 (8-10) **Lab ID: 5098523009** Collected: 05/29/14 13:18 Received: 05/30/14 08:39 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Iodomethane	ND mg/kg		0.075	0.037	1		06/11/14 07:15	74-88-4	
Isopropylbenzene (Cumene)	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	99-87-6	
Methylene Chloride	ND mg/kg		0.015	0.0075	1		06/11/14 07:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.019	0.0090	1		06/11/14 07:15	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	1634-04-4	
n-Propylbenzene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	103-65-1	
Styrene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	79-34-5	
Tetrachloroethene	ND mg/kg		0.0037	0.0013	1		06/11/14 07:15	127-18-4	
Toluene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	79-00-5	
Trichloroethene	ND mg/kg		0.0037	0.00075	1		06/11/14 07:15	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	96-18-4	
1,2,4-Trimethylbenzene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	108-67-8	
Vinyl acetate	ND mg/kg		0.075	0.037	1		06/11/14 07:15	108-05-4	
Vinyl chloride	ND mg/kg		0.0037	0.0019	1		06/11/14 07:15	75-01-4	
Xylene (Total)	ND mg/kg		0.0075	0.0037	1		06/11/14 07:15	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	108 %.		85-118		1		06/11/14 07:15	1868-53-7	
Toluene-d8 (S)	109 %.		71-128		1		06/11/14 07:15	2037-26-5	
4-Bromofluorobenzene (S)	75 %.		56-144		1		06/11/14 07:15	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	7.8 %		0.10	0.10	1		06/04/14 16:39		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 3060A								
Chromium, Hexavalent	ND mg/kg		2.1	0.74	1	06/09/14 06:49	06/10/14 09:48	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	8.4 mg/kg		1.0		1		06/10/14 11:44	16065-83-1	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch:	MERP/5466	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009		

METHOD BLANK: 1109493 Matrix: Solid

Associated Lab Samples: 5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008,
5098523009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	06/13/14 10:09	

LABORATORY CONTROL SAMPLE: 1109494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109495 1109496

Parameter	Units	5098549014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.66	.65	0.81	0.78	105	102	75-125	4	20	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch: MPRP/13522 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 METT

Associated Lab Samples: 5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009

METHOD BLANK: 1105943 Matrix: Solid

Associated Lab Samples: 5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009

Parameter	Units	Blank	Reporting		Analyzed	Qualifiers
		Result	Limit			
Arsenic	mg/kg	ND	1.0	06/09/14 13:20		
Barium	mg/kg	ND	1.0	06/09/14 13:20		
Cadmium	mg/kg	ND	0.50	06/09/14 13:20		
Chromium	mg/kg	ND	1.0	06/09/14 13:20		
Lead	mg/kg	ND	1.0	06/09/14 13:20		
Selenium	mg/kg	ND	1.0	06/09/14 13:20		
Silver	mg/kg	ND	0.50	06/09/14 13:20		

LABORATORY CONTROL SAMPLE: 1105944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.5	105	80-120	
Barium	mg/kg	50	52.4	105	80-120	
Cadmium	mg/kg	50	50.4	101	80-120	
Chromium	mg/kg	50	50.1	100	80-120	
Lead	mg/kg	50	50.8	102	80-120	
Selenium	mg/kg	50	50.4	101	80-120	
Silver	mg/kg	25	24.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105945 1105946

Parameter	Units	MS		MSD		% Rec	MSD % Rec	% Rec Limits	Max RPD			
		5098549014	Spike Conc.	Spike Conc.	MS Result				RPD	Qual		
Arsenic	mg/kg	359	60.5	62.3	432	456	121	156	75-125	5	20	P6
Barium	mg/kg	59.3	60.5	62.3	131	130	119	114	75-125	1	20	
Cadmium	mg/kg	0.73	60.5	62.3	57.9	59.9	95	95	75-125	3	20	
Chromium	mg/kg	8.4	60.5	62.3	66.1	67.6	95	95	75-125	2	20	
Lead	mg/kg	27.7	60.5	62.3	84.7	89.5	94	99	75-125	6	20	
Selenium	mg/kg	ND	60.5	62.3	58.3	61.0	96	98	75-125	4	20	
Silver	mg/kg	ND	30.2	31.2	26.9	27.7	89	89	75-125	3	20	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch: MSV/65598 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098523001, 5098523002

METHOD BLANK: 1107968 Matrix: Solid

Associated Lab Samples: 5098523001, 5098523002

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/10/14 02:18		
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/10/14 02:18		
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/10/14 02:18		
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/10/14 02:18		
1,1-Dichloroethane	mg/kg	ND	0.0050	06/10/14 02:18		
1,1-Dichloroethene	mg/kg	ND	0.0050	06/10/14 02:18		
1,1-Dichloropropene	mg/kg	ND	0.0050	06/10/14 02:18		
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/10/14 02:18		
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/10/14 02:18		
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/10/14 02:18		
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/10/14 02:18		
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/10/14 02:18		
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/10/14 02:18		
1,2-Dichloroethane	mg/kg	ND	0.0050	06/10/14 02:18		
1,2-Dichloropropane	mg/kg	ND	0.0050	06/10/14 02:18		
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/10/14 02:18		
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/10/14 02:18		
1,3-Dichloropropane	mg/kg	ND	0.0050	06/10/14 02:18		
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/10/14 02:18		
2,2-Dichloropropane	mg/kg	ND	0.0050	06/10/14 02:18		
2-Butanone (MEK)	mg/kg	ND	0.025	06/10/14 02:18		
2-Chlorotoluene	mg/kg	ND	0.0050	06/10/14 02:18		
2-Hexanone	mg/kg	ND	0.10	06/10/14 02:18		
4-Chlorotoluene	mg/kg	ND	0.0050	06/10/14 02:18		
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/10/14 02:18		
Acetone	mg/kg	ND	0.10	06/10/14 02:18		
Acrolein	mg/kg	ND	0.10	06/10/14 02:18		
Acrylonitrile	mg/kg	ND	0.10	06/10/14 02:18		
Benzene	mg/kg	ND	0.0050	06/10/14 02:18		
Bromobenzene	mg/kg	ND	0.0050	06/10/14 02:18		
Bromochloromethane	mg/kg	ND	0.0050	06/10/14 02:18		
Bromodichloromethane	mg/kg	ND	0.0050	06/10/14 02:18		
Bromoform	mg/kg	ND	0.0050	06/10/14 02:18		
Bromomethane	mg/kg	ND	0.0050	06/10/14 02:18		
Carbon disulfide	mg/kg	ND	0.010	06/10/14 02:18		
Carbon tetrachloride	mg/kg	ND	0.0050	06/10/14 02:18		
Chlorobenzene	mg/kg	ND	0.0050	06/10/14 02:18		
Chloroethane	mg/kg	ND	0.0050	06/10/14 02:18		
Chloroform	mg/kg	ND	0.0050	06/10/14 02:18		
Chloromethane	mg/kg	ND	0.0050	06/10/14 02:18		
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/10/14 02:18		

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

METHOD BLANK: 1107968

Matrix: Solid

Associated Lab Samples: 5098523001, 5098523002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/10/14 02:18	
Dibromochloromethane	mg/kg	ND	0.0050	06/10/14 02:18	
Dibromomethane	mg/kg	ND	0.0050	06/10/14 02:18	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/10/14 02:18	
Ethyl methacrylate	mg/kg	ND	0.10	06/10/14 02:18	
Ethylbenzene	mg/kg	ND	0.0050	06/10/14 02:18	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/10/14 02:18	
Iodomethane	mg/kg	ND	0.10	06/10/14 02:18	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/10/14 02:18	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/10/14 02:18	
Methylene Chloride	mg/kg	ND	0.020	06/10/14 02:18	
n-Butylbenzene	mg/kg	ND	0.0050	06/10/14 02:18	
n-Hexane	mg/kg	ND	0.0050	06/10/14 02:18	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/10/14 02:18	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/10/14 02:18	
sec-Butylbenzene	mg/kg	ND	0.0050	06/10/14 02:18	
Styrene	mg/kg	ND	0.0050	06/10/14 02:18	
tert-Butylbenzene	mg/kg	ND	0.0050	06/10/14 02:18	
Tetrachloroethene	mg/kg	ND	0.0050	06/10/14 02:18	
Toluene	mg/kg	ND	0.0050	06/10/14 02:18	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/10/14 02:18	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/10/14 02:18	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/10/14 02:18	
Trichloroethene	mg/kg	ND	0.0050	06/10/14 02:18	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/10/14 02:18	
Vinyl acetate	mg/kg	ND	0.10	06/10/14 02:18	
Vinyl chloride	mg/kg	ND	0.0050	06/10/14 02:18	
Xylene (Total)	mg/kg	ND	0.010	06/10/14 02:18	
4-Bromofluorobenzene (S)	%.	103	56-144	06/10/14 02:18	
Dibromofluoromethane (S)	%.	105	85-118	06/10/14 02:18	
Toluene-d8 (S)	%.	100	71-128	06/10/14 02:18	

LABORATORY CONTROL SAMPLE: 1107969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.049	99	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.053	106	65-124	
1,1-Dichloroethene	mg/kg	.05	0.049	98	66-126	
1,2,4-Trimethylbenzene	mg/kg	.05	0.050	100	67-126	
1,2-Dichloropropane	mg/kg	.05	0.050	100	75-118	
Benzene	mg/kg	.05	0.055	110	74-119	
Chlorobenzene	mg/kg	.05	0.051	101	77-122	
Chloroform	mg/kg	.05	0.050	99	75-124	
Ethylbenzene	mg/kg	.05	0.053	106	72-123	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

LABORATORY CONTROL SAMPLE: 1107969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	mg/kg	.05	0.053	106	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.099	99	68-120	
Tetrachloroethylene	mg/kg	.05	0.048	97	72-126	
Toluene	mg/kg	.05	0.051	102	71-121	
Trichloroethene	mg/kg	.05	0.049	98	74-123	
Vinyl chloride	mg/kg	.05	0.056	111	55-128	
Xylene (Total)	mg/kg	.15	0.15	102	66-124	
4-Bromofluorobenzene (S)	%.			99	56-144	
Dibromofluoromethane (S)	%.			97	85-118	
Toluene-d8 (S)	%.			102	71-128	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch:	MSV/65645	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009		

METHOD BLANK:	1108533	Matrix:	Solid
Associated Lab Samples:	5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/11/14 02:39	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/11/14 02:39	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/11/14 02:39	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/11/14 02:39	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/11/14 02:39	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/11/14 02:39	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/11/14 02:39	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/11/14 02:39	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/11/14 02:39	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/11/14 02:39	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/11/14 02:39	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/11/14 02:39	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/11/14 02:39	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/11/14 02:39	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/11/14 02:39	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/11/14 02:39	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/11/14 02:39	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/11/14 02:39	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/11/14 02:39	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/11/14 02:39	
2-Butanone (MEK)	mg/kg	ND	0.025	06/11/14 02:39	
2-Chlorotoluene	mg/kg	ND	0.0050	06/11/14 02:39	
2-Hexanone	mg/kg	ND	0.10	06/11/14 02:39	
4-Chlorotoluene	mg/kg	ND	0.0050	06/11/14 02:39	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/11/14 02:39	
Acetone	mg/kg	ND	0.10	06/11/14 02:39	
Acrolein	mg/kg	ND	0.10	06/11/14 02:39	
Acrylonitrile	mg/kg	ND	0.10	06/11/14 02:39	
Benzene	mg/kg	ND	0.0050	06/11/14 02:39	
Bromobenzene	mg/kg	ND	0.0050	06/11/14 02:39	
Bromochloromethane	mg/kg	ND	0.0050	06/11/14 02:39	
Bromodichloromethane	mg/kg	ND	0.0050	06/11/14 02:39	
Bromoform	mg/kg	ND	0.0050	06/11/14 02:39	
Bromomethane	mg/kg	ND	0.0050	06/11/14 02:39	
Carbon disulfide	mg/kg	ND	0.010	06/11/14 02:39	
Carbon tetrachloride	mg/kg	ND	0.0050	06/11/14 02:39	
Chlorobenzene	mg/kg	ND	0.0050	06/11/14 02:39	
Chloroethane	mg/kg	ND	0.0050	06/11/14 02:39	
Chloroform	mg/kg	ND	0.0050	06/11/14 02:39	
Chloromethane	mg/kg	ND	0.0050	06/11/14 02:39	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/11/14 02:39	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

METHOD BLANK: 1108533

Matrix: Solid

Associated Lab Samples: 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/11/14 02:39	
Dibromochloromethane	mg/kg	ND	0.0050	06/11/14 02:39	
Dibromomethane	mg/kg	ND	0.0050	06/11/14 02:39	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/11/14 02:39	
Ethyl methacrylate	mg/kg	ND	0.10	06/11/14 02:39	
Ethylbenzene	mg/kg	ND	0.0050	06/11/14 02:39	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/11/14 02:39	
Iodomethane	mg/kg	ND	0.10	06/11/14 02:39	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/11/14 02:39	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/11/14 02:39	
Methylene Chloride	mg/kg	ND	0.020	06/11/14 02:39	
n-Butylbenzene	mg/kg	ND	0.0050	06/11/14 02:39	
n-Hexane	mg/kg	ND	0.0050	06/11/14 02:39	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/11/14 02:39	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/11/14 02:39	
sec-Butylbenzene	mg/kg	ND	0.0050	06/11/14 02:39	
Styrene	mg/kg	ND	0.0050	06/11/14 02:39	
tert-Butylbenzene	mg/kg	ND	0.0050	06/11/14 02:39	
Tetrachloroethene	mg/kg	ND	0.0050	06/11/14 02:39	
Toluene	mg/kg	ND	0.0050	06/11/14 02:39	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/11/14 02:39	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/11/14 02:39	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/11/14 02:39	
Trichloroethene	mg/kg	ND	0.0050	06/11/14 02:39	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/11/14 02:39	
Vinyl acetate	mg/kg	ND	0.10	06/11/14 02:39	
Vinyl chloride	mg/kg	ND	0.0050	06/11/14 02:39	
Xylene (Total)	mg/kg	ND	0.010	06/11/14 02:39	
4-Bromofluorobenzene (S)	%.	95	56-144	06/11/14 02:39	
Dibromofluoromethane (S)	%.	104	85-118	06/11/14 02:39	
Toluene-d8 (S)	%.	110	71-128	06/11/14 02:39	

LABORATORY CONTROL SAMPLE: 1108534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.040	80	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.053	106	65-124	
1,1-Dichloroethene	mg/kg	.05	0.055	110	66-126	
1,2,4-Trimethylbenzene	mg/kg	.05	0.049	99	67-126	
1,2-Dichloropropane	mg/kg	.05	0.047	94	75-118	
Benzene	mg/kg	.05	0.057	114	74-119	
Chlorobenzene	mg/kg	.05	0.052	103	77-122	
Chloroform	mg/kg	.05	0.052	103	75-124	
Ethylbenzene	mg/kg	.05	0.053	106	72-123	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

LABORATORY CONTROL SAMPLE: 1108534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	mg/kg	.05	0.051	102	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.10	100	68-120	
Tetrachloroethene	mg/kg	.05	0.050	100	72-126	
Toluene	mg/kg	.05	0.055	110	71-121	
Trichloroethene	mg/kg	.05	0.049	97	74-123	
Vinyl chloride	mg/kg	.05	0.063	127	55-128	
Xylene (Total)	mg/kg	.15	0.16	107	66-124	
4-Bromofluorobenzene (S)	%.			100	56-144	
Dibromofluoromethane (S)	%.			102	85-118	
Toluene-d8 (S)	%.			109	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1108535 1108536

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		5098600012	Spiked Result	Spike Conc.	MSD Result				RPD	RPD	
1,1,1-Trichloroethane	mg/kg	ND	.044	.044	0.035	0.036	79	82	26-143	2	20
1,1,2,2-Tetrachloroethane	mg/kg	ND	.044	.044	0.048	0.050	110	115	10-156	4	20
1,1-Dichloroethene	mg/kg	ND	.044	.044	0.051	0.052	116	119	31-146	2	20
1,2,4-Trimethylbenzene	mg/kg	ND	.044	.044	0.040	0.040	90	91	10-139	1	20
1,2-Dichloropropane	mg/kg	ND	.044	.044	0.042	0.041	95	94	29-135	2	20
Benzene	mg/kg	ND	.044	.044	0.050	0.050	113	113	27-140	0	20
Chlorobenzene	mg/kg	ND	.044	.044	0.043	0.043	98	98	10-136	1	20
Chloroform	mg/kg	ND	.044	.044	0.047	0.047	107	107	36-138	0	20
Ethylbenzene	mg/kg	ND	.044	.044	0.044	0.045	99	102	10-144	2	20
Isopropylbenzene (Cumene)	mg/kg	ND	.044	.044	0.041	0.042	93	95	10-134	1	20
Methyl-tert-butyl ether	mg/kg	ND	.088	.088	0.094	0.087	106	99	30-147	8	20
Tetrachloroethene	mg/kg	0.066	.044	.044	0.059	0.092	-16	58	10-153	43	20 M0,R1
Toluene	mg/kg	ND	.044	.044	0.047	0.049	107	112	10-140	4	20
Trichloroethene	mg/kg	ND	.044	.044	0.042	0.043	94	95	17-148	1	20
Vinyl chloride	mg/kg	ND	.044	.044	0.061	0.061	138	139	30-145	0	20
Xylene (Total)	mg/kg	ND	.13	.13	0.13	0.13	101	101	10-143	0	20
4-Bromofluorobenzene (S)	%.						94	90	56-144		
Dibromofluoromethane (S)	%.						105	103	85-118		
Toluene-d8 (S)	%.						110	109	71-128		

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch:	OEXT/36003	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009		

METHOD BLANK: 1104368 Matrix: Solid

Associated Lab Samples: 5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009

Parameter	Units	Blank Result	Reporting Limit		Qualifiers
			Analyzed		
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.10	06/04/14 07:51	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.10	06/04/14 07:51	
Tetrachloro-m-xylene (S)	%.	69	30-106	06/04/14 07:51	

LABORATORY CONTROL SAMPLE: 1104369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec		% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.17	0.13	75		42-100	
PCB-1260 (Aroclor 1260)	mg/kg	.17	0.14	82		40-106	
Tetrachloro-m-xylene (S)	%.			70		30-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104370 1104371

Parameter	Units	5098613001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
			Spike Conc.	Result	Spike Conc.	MS Result					
PCB-1016 (Aroclor 1016)	mg/kg	ND	.21	.21	0.13	0.10J	62	51	10-145		20
PCB-1260 (Aroclor 1260)	mg/kg	ND	.21	.21	0.13	0.10J	63	50	16-132		20
Tetrachloro-m-xylene (S)	%.						59	50	30-106		

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch:	OEXT/36019	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3546	Analysis Description:	8270 MSSV PAH by SIM
Associated Lab Samples:	5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009		

METHOD BLANK: 1105093 Matrix: Solid

Associated Lab Samples: 5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	06/05/14 13:55	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	06/05/14 13:55	
Acenaphthene	mg/kg	ND	0.0050	06/05/14 13:55	
Acenaphthylene	mg/kg	ND	0.0050	06/05/14 13:55	
Anthracene	mg/kg	ND	0.0050	06/05/14 13:55	
Benzo(a)anthracene	mg/kg	ND	0.0050	06/05/14 13:55	
Benzo(a)pyrene	mg/kg	ND	0.0050	06/05/14 13:55	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	06/05/14 13:55	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	06/05/14 13:55	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	06/05/14 13:55	
Chrysene	mg/kg	ND	0.0050	06/05/14 13:55	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	06/05/14 13:55	
Fluoranthene	mg/kg	ND	0.0050	06/05/14 13:55	
Fluorene	mg/kg	ND	0.0050	06/05/14 13:55	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	06/05/14 13:55	
Naphthalene	mg/kg	ND	0.0050	06/05/14 13:55	
Phenanthrene	mg/kg	ND	0.0050	06/05/14 13:55	
Pyrene	mg/kg	ND	0.0050	06/05/14 13:55	
2-Fluorobiphenyl (S)	%.	71	38-110	06/05/14 13:55	
p-Terphenyl-d14 (S)	%.	74	32-111	06/05/14 13:55	

LABORATORY CONTROL SAMPLE: 1105094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.21	63	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.19	56	39-104	
Acenaphthene	mg/kg	.33	0.22	65	43-108	
Acenaphthylene	mg/kg	.33	0.21	64	44-110	
Anthracene	mg/kg	.33	0.23	69	44-112	
Benzo(a)anthracene	mg/kg	.33	0.25	74	43-124	
Benzo(a)pyrene	mg/kg	.33	0.27	80	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.28	83	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.26	78	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.27	80	42-122	
Chrysene	mg/kg	.33	0.26	77	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.26	79	44-119	
Fluoranthene	mg/kg	.33	0.25	76	45-119	
Fluorene	mg/kg	.33	0.20	61	44-113	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

LABORATORY CONTROL SAMPLE: 1105094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.26	79	44-119	
Naphthalene	mg/kg	.33	0.20	61	42-103	
Phenanthrene	mg/kg	.33	0.23	69	44-113	
Pyrene	mg/kg	.33	0.24	72	45-123	
2-Fluorobiphenyl (S)	%.			66	38-110	
p-Terphenyl-d14 (S)	%.			73	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105095 1105096

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		5098643001	Spike Result	Spike Conc.	MS Result				RPD	RPD	Qual
1-Methylnaphthalene	mg/kg	0.087	.38	.38	0.29	0.28	53	50	20-116	3	20 N2
2-Methylnaphthalene	mg/kg	0.15	.38	.38	0.31	0.32	41	44	10-131	4	20
Acenaphthene	mg/kg	ND	.38	.38	0.22	0.23	57	59	25-117	5	20
Acenaphthylene	mg/kg	ND	.38	.38	0.21	0.23	55	60	27-123	8	20
Anthracene	mg/kg	ND	.38	.38	0.22	0.23	58	61	20-123	5	20
Benzo(a)anthracene	mg/kg	ND	.38	.38	0.22	0.24	57	61	23-124	8	20
Benzo(a)pyrene	mg/kg	ND	.38	.38	0.22	0.24	59	64	23-120	9	20
Benzo(b)fluoranthene	mg/kg	ND	.38	.38	0.22	0.25	57	65	24-117	13	20
Benzo(g,h,i)perylene	mg/kg	ND	.38	.38	0.21	0.22	55	59	12-122	7	20
Benzo(k)fluoranthene	mg/kg	ND	.38	.38	0.24	0.26	62	69	14-123	11	20
Chrysene	mg/kg	ND	.38	.38	0.23	0.25	60	65	22-124	8	20
Dibenz(a,h)anthracene	mg/kg	ND	.38	.38	0.23	0.25	60	66	26-113	9	20
Fluoranthene	mg/kg	ND	.38	.38	0.22	0.27	58	71	21-125	21	20 R1
Fluorene	mg/kg	ND	.38	.38	0.23	0.25	60	65	19-127	8	20
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.38	.38	0.22	0.24	57	62	15-121	10	20
Naphthalene	mg/kg	0.30	.38	.38	0.41	0.43	31	35	15-125	3	20
Phenanthrene	mg/kg	0.027	.38	.38	0.26	0.28	62	65	10-139	4	20
Pyrene	mg/kg	ND	.38	.38	0.22	0.29	56	75	17-132	29	20 R1
2-Fluorobiphenyl (S)	%.						52	61	38-110		
p-Terphenyl-d14 (S)	%.						50	61	32-111		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch:	PMST/9550	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	5098523001, 5098523002, 5098523003		

SAMPLE DUPLICATE: 1105019

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.4	2.8	16	5	R1

SAMPLE DUPLICATE: 1105020

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	11.5	22	5	R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch:	PMST/9551	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 5098523004, 5098523005, 5098523006, 5098523007, 5098523008, 5098523009			

SAMPLE DUPLICATE: 1105021

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.6	5.4	3	5	

SAMPLE DUPLICATE: 1105022

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.8	14.5	2	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch:	WET/16097	Analysis Method:	EPA 7196A
QC Batch Method:	EPA 3060A	Analysis Description:	7196 Chromium, Hexavalent
Associated Lab Samples:	5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006		

METHOD BLANK: 1105223 Matrix: Solid

Associated Lab Samples: 5098523001, 5098523002, 5098523003, 5098523004, 5098523005, 5098523006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.0	06/06/14 09:56	

LABORATORY CONTROL SAMPLE: 1105224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	985	1050	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105226 1105227

Parameter	Units	5098489002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	1070	1070	1090	1070	102	99	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105228 1105229

Parameter	Units	5098489002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	43.9	42.7	39.4	35.1	90	82	75-125	12	20	

SAMPLE DUPLICATE: 1105225

Parameter	Units	5098487001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

QC Batch: WET/16135 Analysis Method: EPA 7196A
QC Batch Method: EPA 3060A Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 5098523007, 5098523008, 5098523009

METHOD BLANK: 1106615 Matrix: Solid

Associated Lab Samples: 5098523007, 5098523008, 5098523009

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Chromium, Hexavalent	mg/kg	ND	2.0	06/10/14 09:33	

LABORATORY CONTROL SAMPLE: 1106616

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Chromium, Hexavalent	mg/kg	992	1000	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106617 1106618

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		5098523007	Spike										
Chromium, Hexavalent	mg/kg	ND	1100	1070	875	925	79	86	75-125	6	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106619 1106620

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		5098523007	Spike										
Chromium, Hexavalent	mg/kg	ND	42.9	42.2	34.7	32.8	81	78	75-125	6	20		

SAMPLE DUPLICATE: 1106752

Parameter	Units	5098746024	Dup	RPD	Max	RPD	Qualifiers
		Result	Result				
Chromium, Hexavalent	mg/kg	ND	ND			20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098523

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

- 1d Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 06/06/14
- 2d Reported result may be biased high due to the presence of another co-eluting aroclor.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- N2 The lab does not hold TNI accreditation for this parameter.
- P3 Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- R1 RPD value was outside control limits.
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098523001	SB1 (8-10)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523002	SB2 (5-7)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523003	SB2 (8-10)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523004	SB3 (21-23)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523005	SB4 (23-25)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523006	SB5 (8-10)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523007	SB6 (8-10)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523008	SB7 (8-10)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523009	SB8 (8-10)	EPA 3546	OEXT/36003	EPA 8082	GCSV/12614
5098523001	SB1 (8-10)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523002	SB2 (5-7)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523003	SB2 (8-10)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523004	SB3 (21-23)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523005	SB4 (23-25)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523006	SB5 (8-10)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523007	SB6 (8-10)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523008	SB7 (8-10)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523009	SB8 (8-10)	EPA 3050	MPRP/13522	EPA 6010	ICP/15719
5098523001	SB1 (8-10)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523002	SB2 (5-7)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523003	SB2 (8-10)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523004	SB3 (21-23)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523005	SB4 (23-25)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523006	SB5 (8-10)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523007	SB6 (8-10)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523008	SB7 (8-10)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523009	SB8 (8-10)	EPA 7471	MERP/5466	EPA 7471	MERC/5981
5098523001	SB1 (8-10)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523002	SB2 (5-7)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523003	SB2 (8-10)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523004	SB3 (21-23)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523005	SB4 (23-25)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523006	SB5 (8-10)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523007	SB6 (8-10)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523008	SB7 (8-10)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523009	SB8 (8-10)	EPA 3546	OEXT/36019	EPA 8270 by SIM	MSSV/15428
5098523001	SB1 (8-10)	EPA 8260	MSV/65598		
5098523002	SB2 (5-7)	EPA 8260	MSV/65598		
5098523003	SB2 (8-10)	EPA 8260	MSV/65645		
5098523004	SB3 (21-23)	EPA 8260	MSV/65645		
5098523005	SB4 (23-25)	EPA 8260	MSV/65645		
5098523006	SB5 (8-10)	EPA 8260	MSV/65645		
5098523007	SB6 (8-10)	EPA 8260	MSV/65645		
5098523008	SB7 (8-10)	EPA 8260	MSV/65645		
5098523009	SB8 (8-10)	EPA 8260	MSV/65645		
5098523001	SB1 (8-10)	ASTM D2974-87	PMST/9550		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098523002	SB2 (5-7)	ASTM D2974-87	PMST/9550		
5098523003	SB2 (8-10)	ASTM D2974-87	PMST/9550		
5098523004	SB3 (21-23)	ASTM D2974-87	PMST/9551		
5098523005	SB4 (23-25)	ASTM D2974-87	PMST/9551		
5098523006	SB5 (8-10)	ASTM D2974-87	PMST/9551		
5098523007	SB6 (8-10)	ASTM D2974-87	PMST/9551		
5098523008	SB7 (8-10)	ASTM D2974-87	PMST/9551		
5098523009	SB8 (8-10)	ASTM D2974-87	PMST/9551		
5098523001	SB1 (8-10)	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098523002	SB2 (5-7)	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098523003	SB2 (8-10)	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098523004	SB3 (21-23)	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098523005	SB4 (23-25)	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098523006	SB5 (8-10)	EPA 3060A	WET/16097	EPA 7196A	WET/16131
5098523007	SB6 (8-10)	EPA 3060A	WET/16135	EPA 7196A	WET/16164
5098523008	SB7 (8-10)	EPA 3060A	WET/16135	EPA 7196A	WET/16164
5098523009	SB8 (8-10)	EPA 3060A	WET/16135	EPA 7196A	WET/16164
5098523001	SB1 (8-10)	Trivalent Chromium Calculation	WET/16137		
5098523002	SB2 (5-7)	Trivalent Chromium Calculation	WET/16137		
5098523003	SB2 (8-10)	Trivalent Chromium Calculation	WET/16137		
5098523004	SB3 (21-23)	Trivalent Chromium Calculation	WET/16137		
5098523005	SB4 (23-25)	Trivalent Chromium Calculation	WET/16137		
5098523006	SB5 (8-10)	Trivalent Chromium Calculation	WET/16137		
5098523007	SB6 (8-10)	Trivalent Chromium Calculation	WET/16137		
5098523008	SB7 (8-10)	Trivalent Chromium Calculation	WET/16137		
5098523009	SB8 (8-10)	Trivalent Chromium Calculation	WET/16137		

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Sample Condition Upon Receipt

Client Name: SOL + MATERIALS
ENGINEERS Project # 5098523

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.2 °C Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 5/30/14 Sj

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments: 1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9. (Circle) HNO ₃ H ₂ SO ₄ NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt Date: 5/30/14

CLIENT: SOIL + MATERIALS ENGINEERS

COC PAGE 1 of 1
coc ID# 1087048

Sample Container Count

Project # 99753

Bulk

Sample Line Item	DG9H	AG1U	WG FU	AGOU	R	4 / 6	BP2N	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	pH <2	pH >12	Comments
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Container Codes

DG9H	40mL HCl amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H ₂ SO ₄ plastic	DG9S	40mL H ₂ SO ₄ amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H ₂ SO ₄ amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H ₂ SO ₄ amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H ₂ SO ₄ plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio, clear vial
BP3S	250mL H ₂ SO ₄ plastic	BG1S	1 liter H ₂ SO ₄ clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H ₂ SO ₄ glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H ₂ SO ₄ amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfite amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

June 13, 2014

Mr. Chris Shaw
SME, Inc.
5847 W 74th Street
Indianapolis, IN 46278

RE: Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098635

Dear Mr. Shaw:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098635

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247

Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5098635001	SB1GW	Water	06/02/14 11:50	06/03/14 08:13
5098635002	SB2GW	Water	06/02/14 14:32	06/03/14 08:13
5098635003	TRIP BLANK	Water	06/02/14 08:00	06/03/14 08:13
5098635004	DUP01	Water	06/02/14 08:00	06/03/14 08:13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098635

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5098635001	SB1GW	EPA 8011	DMT	2	PASI-I
		EPA 6010	LLB	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	AMV	72	PASI-I
5098635002	SB2GW	EPA 6010	LLB	7	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	AMV	72	PASI-I
		EPA 7196	TPD	1	PASI-I
		Trivalent Chromium Calculation	DDM	1	PASI-I
5098635003	TRIP BLANK	EPA 8260	AMV	72	PASI-I
5098635004	DUP01	EPA 8011	DMT	2	PASI-I
		EPA 6010	LLB	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	AMV	72	PASI-I

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: SB1GW		Lab ID: 5098635001		Collected: 06/02/14 11:50		Received: 06/03/14 08:13		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.036	0.018	1	06/03/14 12:00	06/04/14 01:43	106-93-4	N2
Surrogates									
4-Bromofluorobenzene (S)	77	%.	50-150		1	06/03/14 12:00	06/04/14 01:43	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	9.3J	ug/L	10.0	4.0	1	06/04/14 14:51	06/10/14 11:00	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	83-32-9	
Acenaphthylene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	208-96-8	
Anthracene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	207-08-9	
Chrysene	ND	ug/L	0.50	0.25	1	06/03/14 10:28	06/04/14 13:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	53-70-3	
Fluoranthene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	206-44-0	
Fluorene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 13:33	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	91-57-6	
Naphthalene	0.94J	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	91-20-3	
Phenanthrene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	85-01-8	
Pyrene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 13:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	21-114		1	06/03/14 10:28	06/04/14 13:33	321-60-8	
p-Terphenyl-d14 (S)	79	%.	25-131		1	06/03/14 10:28	06/04/14 13:33	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	50.0	1			06/11/14 03:05	67-64-1
Acrolein	ND	ug/L	50.0	25.0	1			06/11/14 03:05	107-02-8
Acrylonitrile	ND	ug/L	100	50.0	1			06/11/14 03:05	107-13-1
Benzene	ND	ug/L	5.0	1.0	1			06/11/14 03:05	71-43-2
Bromobenzene	ND	ug/L	5.0	2.5	1			06/11/14 03:05	108-86-1
Bromochloromethane	ND	ug/L	5.0	2.5	1			06/11/14 03:05	74-97-5
Bromodichloromethane	ND	ug/L	5.0	2.5	1			06/11/14 03:05	75-27-4
Bromoform	ND	ug/L	5.0	2.5	1			06/11/14 03:05	75-25-2
Bromomethane	ND	ug/L	5.0	2.5	1			06/11/14 03:05	74-83-9
2-Butanone (MEK)	ND	ug/L	25.0	12.0	1			06/11/14 03:05	78-93-3
n-Butylbenzene	ND	ug/L	5.0	2.5	1			06/11/14 03:05	104-51-8
sec-Butylbenzene	ND	ug/L	5.0	2.5	1			06/11/14 03:05	135-98-8
tert-Butylbenzene	ND	ug/L	5.0	2.5	1			06/11/14 03:05	98-06-6
Carbon disulfide	ND	ug/L	10.0	5.0	1			06/11/14 03:05	75-15-0
Carbon tetrachloride	ND	ug/L	5.0	2.5	1			06/11/14 03:05	56-23-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: SB1GW	Lab ID: 5098635001	Collected: 06/02/14 11:50	Received: 06/03/14 08:13	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	108-90-7	
Chloroethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	75-00-3	
Chloroform	ND ug/L		5.0	2.5	1		06/11/14 03:05	67-66-3	
Chloromethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	2.5	1		06/11/14 03:05	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	2.5	1		06/11/14 03:05	106-43-4	
Dibromochloromethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	2.5	1		06/11/14 03:05	106-93-4	
Dibromomethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	25.0	1		06/11/14 03:05	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1.0	1		06/11/14 03:05	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 03:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 03:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 03:05	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 03:05	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 03:05	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 03:05	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 03:05	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 03:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 03:05	10061-02-6	
Ethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	100-41-4	
Ethyl methacrylate	ND ug/L		100	50.0	1		06/11/14 03:05	97-63-2	
Hexachloro-1,3-butadiene	2.6J ug/L		5.0	2.5	1		06/11/14 03:05	87-68-3	
n-Hexane	ND ug/L		5.0	2.5	1		06/11/14 03:05	110-54-3	
2-Hexanone	ND ug/L		25.0	12.0	1		06/11/14 03:05	591-78-6	N2
Iodomethane	ND ug/L		10.0	5.0	1		06/11/14 03:05	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	2.5	1		06/11/14 03:05	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	2.5	1		06/11/14 03:05	99-87-6	
Methylene Chloride	ND ug/L		5.0	2.5	1		06/11/14 03:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	12.0	1		06/11/14 03:05	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	2.0	1		06/11/14 03:05	1634-04-4	
n-Propylbenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	103-65-1	
Styrene	ND ug/L		5.0	2.5	1		06/11/14 03:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1.0	1		06/11/14 03:05	127-18-4	
Toluene	4.0J ug/L		5.0	2.5	1		06/11/14 03:05	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	87-61-6	
1,2,4-Trichlorobenzene	5.1 ug/L		5.0	2.5	1		06/11/14 03:05	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	79-00-5	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: SB1GW		Lab ID: 5098635001		Collected: 06/02/14 11:50		Received: 06/03/14 08:13		Matrix: Water	
Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	ND ug/L		5.0	1.0	1		06/11/14 03:05	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	2.5	1		06/11/14 03:05	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	2.5	1		06/11/14 03:05	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 03:05	108-67-8	
Vinyl acetate	ND ug/L		50.0	25.0	1		06/11/14 03:05	108-05-4	
Vinyl chloride	ND ug/L		2.0	1.0	1		06/11/14 03:05	75-01-4	
Xylene (Total)	ND ug/L		10.0	5.0	1		06/11/14 03:05	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96 %.		79-116		1		06/11/14 03:05	1868-53-7	
4-Bromofluorobenzene (S)	96 %.		80-114		1		06/11/14 03:05	460-00-4	
Toluene-d8 (S)	99 %.		81-110		1		06/11/14 03:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098635

Sample: SB2GW	Lab ID: 5098635002	Collected: 06/02/14 14:32	Received: 06/03/14 08:13	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND ug/L		10.0	5.0	1	06/04/14 14:51	06/10/14 11:03	7440-38-2	
Barium	34.4 ug/L		10.0	5.0	1	06/04/14 14:51	06/10/14 11:03	7440-39-3	
Cadmium	ND ug/L		2.0	1.0	1	06/04/14 14:51	06/10/14 11:03	7440-43-9	
Chromium	73.1 ug/L		10.0	5.0	1	06/04/14 14:51	06/10/14 11:03	7440-47-3	
Lead	20.3 ug/L		10.0	4.0	1	06/04/14 14:51	06/10/14 11:03	7439-92-1	
Selenium	ND ug/L		10.0	5.0	1	06/04/14 14:51	06/10/14 11:03	7782-49-2	
Silver	ND ug/L		10.0	5.0	1	06/04/14 14:51	06/10/14 11:03	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND ug/L		2.0	1.0	1	06/05/14 08:35	06/06/14 11:48	7439-97-6	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	83-32-9	
Acenaphthylene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	208-96-8	
Anthracene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	207-08-9	
Chrysene	ND ug/L		0.50	0.25	1	06/03/14 10:28	06/04/14 13:51	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	53-70-3	
Fluoranthene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	206-44-0	
Fluorene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	0.050	1	06/03/14 10:28	06/04/14 13:51	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	91-57-6	
Naphthalene	0.86J ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	91-20-3	
Phenanthrene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	85-01-8	
Pyrene	ND ug/L		1.0	0.50	1	06/03/14 10:28	06/04/14 13:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58 %.	21-114			1	06/03/14 10:28	06/04/14 13:51	321-60-8	
p-Terphenyl-d14 (S)	84 %.	25-131			1	06/03/14 10:28	06/04/14 13:51	1718-51-0	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND ug/L		100	50.0	1			67-64-1	
Acrolein	ND ug/L		50.0	25.0	1			107-02-8	
Acrylonitrile	ND ug/L		100	50.0	1			107-13-1	
Benzene	ND ug/L		5.0	1.0	1			71-43-2	
Bromobenzene	ND ug/L		5.0	2.5	1			108-86-1	
Bromochloromethane	ND ug/L		5.0	2.5	1			74-97-5	
Bromodichloromethane	ND ug/L		5.0	2.5	1			75-27-4	
Bromoform	ND ug/L		5.0	2.5	1			75-25-2	
Bromomethane	ND ug/L		5.0	2.5	1			74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	12.0	1			78-93-3	
n-Butylbenzene	ND ug/L		5.0	2.5	1			104-51-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: SB2GW	Lab ID: 5098635002	Collected: 06/02/14 14:32	Received: 06/03/14 08:13	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
sec-Butylbenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	98-06-6	
Carbon disulfide	ND ug/L		10.0	5.0	1		06/11/14 04:42	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	2.5	1		06/11/14 04:42	56-23-5	
Chlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	108-90-7	
Chloroethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	75-00-3	
Chloroform	ND ug/L		5.0	2.5	1		06/11/14 04:42	67-66-3	
Chloromethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	2.5	1		06/11/14 04:42	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	2.5	1		06/11/14 04:42	106-43-4	
Dibromochloromethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	2.5	1		06/11/14 04:42	106-93-4	
Dibromomethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	25.0	1		06/11/14 04:42	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1.0	1		06/11/14 04:42	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 04:42	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 04:42	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 04:42	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 04:42	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 04:42	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 04:42	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 04:42	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 04:42	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 04:42	10061-02-6	
Ethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	100-41-4	
Ethyl methacrylate	ND ug/L		100	50.0	1		06/11/14 04:42	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	2.5	1		06/11/14 04:42	87-68-3	
n-Hexane	ND ug/L		5.0	2.5	1		06/11/14 04:42	110-54-3	N2
2-Hexanone	ND ug/L		25.0	12.0	1		06/11/14 04:42	591-78-6	
Iodomethane	ND ug/L		10.0	5.0	1		06/11/14 04:42	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	2.5	1		06/11/14 04:42	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	2.5	1		06/11/14 04:42	99-87-6	
Methylene Chloride	ND ug/L		5.0	2.5	1		06/11/14 04:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	12.0	1		06/11/14 04:42	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	2.0	1		06/11/14 04:42	1634-04-4	
n-Propylbenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	103-65-1	
Styrene	ND ug/L		5.0	2.5	1		06/11/14 04:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1.0	1		06/11/14 04:42	127-18-4	
Toluene	3.5J ug/L		5.0	2.5	1		06/11/14 04:42	108-88-3	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098635

Sample: SB2GW	Lab ID: 5098635002	Collected: 06/02/14 14:32	Received: 06/03/14 08:13	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	79-00-5	
Trichloroethylene	ND ug/L		5.0	1.0	1		06/11/14 04:42	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	2.5	1		06/11/14 04:42	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	2.5	1		06/11/14 04:42	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 04:42	108-67-8	
Vinyl acetate	ND ug/L		50.0	25.0	1		06/11/14 04:42	108-05-4	
Vinyl chloride	ND ug/L		2.0	1.0	1		06/11/14 04:42	75-01-4	
Xylene (Total)	ND ug/L		10.0	5.0	1		06/11/14 04:42	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	89 %.		79-116		1		06/11/14 04:42	1868-53-7	
4-Bromofluorobenzene (S)	100 %.		80-114		1		06/11/14 04:42	460-00-4	
Toluene-d8 (S)	100 %.		81-110		1		06/11/14 04:42	2037-26-5	
7196 Chromium, Hex. Preserved	Analytical Method: EPA 7196								
Chromium, Hexavalent	ND ug/L		10.0	7.0	1		06/03/14 14:29	18540-29-9	
Trivalent Chromium Calculation	Analytical Method: Trivalent Chromium Calculation								
Chromium, Trivalent	0.073 mg/L		0.010		1		06/10/14 16:54	16065-83-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: TRIP BLANK		Lab ID: 5098635003		Collected: 06/02/14 08:00		Received: 06/03/14 08:13		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									Analytical Method: EPA 8260
Acetone	ND ug/L		100	50.0	1		06/10/14 21:08	67-64-1	
Acrolein	ND ug/L		50.0	25.0	1		06/10/14 21:08	107-02-8	
Acrylonitrile	ND ug/L		100	50.0	1		06/10/14 21:08	107-13-1	
Benzene	ND ug/L		5.0	1.0	1		06/10/14 21:08	71-43-2	
Bromobenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	108-86-1	
Bromoform	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-27-4	
Bromomethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-25-2	
2-Butanone (MEK)	ND ug/L		25.0	12.0	1		06/10/14 21:08	78-93-3	
n-Butylbenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	98-06-6	
Carbon disulfide	ND ug/L		10.0	5.0	1		06/10/14 21:08	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	2.5	1		06/10/14 21:08	56-23-5	
Chlorobenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	108-90-7	
Chloroethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-00-3	
Chloroform	ND ug/L		5.0	2.5	1		06/10/14 21:08	67-66-3	
Chloromethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	2.5	1		06/10/14 21:08	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	2.5	1		06/10/14 21:08	106-43-4	
Dibromochloromethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	2.5	1		06/10/14 21:08	106-93-4	
Dibromomethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	25.0	1		06/10/14 21:08	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1.0	1		06/10/14 21:08	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	2.5	1		06/10/14 21:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	2.5	1		06/10/14 21:08	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/10/14 21:08	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	2.5	1		06/10/14 21:08	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/10/14 21:08	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	2.5	1		06/10/14 21:08	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/10/14 21:08	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/10/14 21:08	10061-02-6	
Ethylbenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	100-41-4	
Ethyl methacrylate	ND ug/L		100	50.0	1		06/10/14 21:08	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	2.5	1		06/10/14 21:08	87-68-3	
n-Hexane	ND ug/L		5.0	2.5	1		06/10/14 21:08	110-54-3	N2
2-Hexanone	ND ug/L		25.0	12.0	1		06/10/14 21:08	591-78-6	
Iodomethane	ND ug/L		10.0	5.0	1		06/10/14 21:08	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: TRIP BLANK		Lab ID: 5098635003		Collected: 06/02/14 08:00		Received: 06/03/14 08:13		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	ND ug/L		5.0	2.5	1		06/10/14 21:08	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	2.5	1		06/10/14 21:08	99-87-6	
Methylene Chloride	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	12.0	1		06/10/14 21:08	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	2.0	1		06/10/14 21:08	1634-04-4	
n-Propylbenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	103-65-1	
Styrene	ND ug/L		5.0	2.5	1		06/10/14 21:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	79-34-5	
Tetrachloroethene	2.6J ug/L		5.0	1.0	1		06/10/14 21:08	127-18-4	
Toluene	ND ug/L		5.0	2.5	1		06/10/14 21:08	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	79-00-5	
Trichloroethene	ND ug/L		5.0	1.0	1		06/10/14 21:08	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	2.5	1		06/10/14 21:08	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	2.5	1		06/10/14 21:08	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/10/14 21:08	108-67-8	
Vinyl acetate	ND ug/L		50.0	25.0	1		06/10/14 21:08	108-05-4	
Vinyl chloride	ND ug/L		2.0	1.0	1		06/10/14 21:08	75-01-4	
Xylene (Total)	ND ug/L		10.0	5.0	1		06/10/14 21:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	90 %.		79-116		1		06/10/14 21:08	1868-53-7	
4-Bromofluorobenzene (S)	99 %.		80-114		1		06/10/14 21:08	460-00-4	
Toluene-d8 (S)	95 %.		81-110		1		06/10/14 21:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: DUP01		Lab ID: 5098635004		Collected: 06/02/14 08:00		Received: 06/03/14 08:13		Matrix: Water	
Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.036	0.018	1	06/03/14 12:00	06/04/14 01:50	106-93-4	N2
Surrogates									
4-Bromofluorobenzene (S)	75	%	50-150		1	06/03/14 12:00	06/04/14 01:50	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	8.7J	ug/L	10.0	4.0	1	06/04/14 14:51	06/10/14 11:20	7439-92-1	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	83-32-9	
Acenaphthylene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	208-96-8	
Anthracene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	207-08-9	
Chrysene	ND	ug/L	0.50	0.25	1	06/03/14 10:28	06/04/14 14:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	53-70-3	
Fluoranthene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	206-44-0	
Fluorene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.050	1	06/03/14 10:28	06/04/14 14:09	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	91-57-6	
Naphthalene	1.0	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	91-20-3	
Phenanthrene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	85-01-8	
Pyrene	ND	ug/L	1.0	0.50	1	06/03/14 10:28	06/04/14 14:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	21-114		1	06/03/14 10:28	06/04/14 14:09	321-60-8	
p-Terphenyl-d14 (S)	87	%	25-131		1	06/03/14 10:28	06/04/14 14:09	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	50.0	1			06/11/14 05:15	67-64-1
Acrolein	ND	ug/L	50.0	25.0	1			06/11/14 05:15	107-02-8
Acrylonitrile	ND	ug/L	100	50.0	1			06/11/14 05:15	107-13-1
Benzene	ND	ug/L	5.0	1.0	1			06/11/14 05:15	71-43-2
Bromobenzene	ND	ug/L	5.0	2.5	1			06/11/14 05:15	108-86-1
Bromochloromethane	ND	ug/L	5.0	2.5	1			06/11/14 05:15	74-97-5
Bromodichloromethane	ND	ug/L	5.0	2.5	1			06/11/14 05:15	75-27-4
Bromoform	ND	ug/L	5.0	2.5	1			06/11/14 05:15	75-25-2
Bromomethane	ND	ug/L	5.0	2.5	1			06/11/14 05:15	74-83-9
2-Butanone (MEK)	ND	ug/L	25.0	12.0	1			06/11/14 05:15	78-93-3
n-Butylbenzene	ND	ug/L	5.0	2.5	1			06/11/14 05:15	104-51-8
sec-Butylbenzene	ND	ug/L	5.0	2.5	1			06/11/14 05:15	135-98-8
tert-Butylbenzene	ND	ug/L	5.0	2.5	1			06/11/14 05:15	98-06-6
Carbon disulfide	ND	ug/L	10.0	5.0	1			06/11/14 05:15	75-15-0
Carbon tetrachloride	ND	ug/L	5.0	2.5	1			06/11/14 05:15	56-23-5

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: DUP01	Lab ID: 5098635004	Collected: 06/02/14 08:00	Received: 06/03/14 08:13	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	108-90-7	
Chloroethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	75-00-3	
Chloroform	ND ug/L		5.0	2.5	1		06/11/14 05:15	67-66-3	
Chloromethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	2.5	1		06/11/14 05:15	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	2.5	1		06/11/14 05:15	106-43-4	
Dibromochloromethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	2.5	1		06/11/14 05:15	106-93-4	
Dibromomethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	25.0	1		06/11/14 05:15	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1.0	1		06/11/14 05:15	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 05:15	75-35-4	
cis-1,2-Dichloroethene	20.1 ug/L		5.0	2.5	1		06/11/14 05:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	2.5	1		06/11/14 05:15	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 05:15	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 05:15	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	2.5	1		06/11/14 05:15	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 05:15	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 05:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	2.5	1		06/11/14 05:15	10061-02-6	
Ethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	100-41-4	
Ethyl methacrylate	ND ug/L		100	50.0	1		06/11/14 05:15	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	2.5	1		06/11/14 05:15	87-68-3	
n-Hexane	ND ug/L		5.0	2.5	1		06/11/14 05:15	110-54-3	N2
2-Hexanone	ND ug/L		25.0	12.0	1		06/11/14 05:15	591-78-6	
Iodomethane	ND ug/L		10.0	5.0	1		06/11/14 05:15	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	2.5	1		06/11/14 05:15	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	2.5	1		06/11/14 05:15	99-87-6	
Methylene Chloride	ND ug/L		5.0	2.5	1		06/11/14 05:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	12.0	1		06/11/14 05:15	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	2.0	1		06/11/14 05:15	1634-04-4	
n-Propylbenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	103-65-1	
Styrene	ND ug/L		5.0	2.5	1		06/11/14 05:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1.0	1		06/11/14 05:15	127-18-4	
Toluene	ND ug/L		5.0	2.5	1		06/11/14 05:15	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	79-00-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Sample: DUP01		Lab ID: 5098635004		Collected: 06/02/14 08:00		Received: 06/03/14 08:13		Matrix: Water	
Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	ND ug/L		5.0	1.0	1		06/11/14 05:15	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	2.5	1		06/11/14 05:15	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	2.5	1		06/11/14 05:15	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	2.5	1		06/11/14 05:15	108-67-8	
Vinyl acetate	ND ug/L		50.0	25.0	1		06/11/14 05:15	108-05-4	
Vinyl chloride	2.9 ug/L		2.0	1.0	1		06/11/14 05:15	75-01-4	
Xylene (Total)	ND ug/L		10.0	5.0	1		06/11/14 05:15	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	93 %.		79-116		1		06/11/14 05:15	1868-53-7	
4-Bromofluorobenzene (S)	92 %.		80-114		1		06/11/14 05:15	460-00-4	
Toluene-d8 (S)	99 %.		81-110		1		06/11/14 05:15	2037-26-5	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

QC Batch:	GCSV/12613	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	GCS 8011 EDB DBCP
Associated Lab Samples:	5098635001, 5098635004		

METHOD BLANK: 1104834 Matrix: Water

Associated Lab Samples: 5098635001, 5098635004

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Reporting Limit		
1,2-Dibromoethane (EDB)	ug/L	ND	0.035	06/04/14 00:20		N2
4-Bromofluorobenzene (S)	%	97	50-150	06/04/14 00:20		

LABORATORY CONTROL SAMPLE: 1104835

Parameter	Units	Spike Conc.	LCS Result		% Rec Limits	Qualifiers
			LCS	% Rec		
1,2-Dibromoethane (EDB)	ug/L	.25	0.28	111	60-140	N2
4-Bromofluorobenzene (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104836 1104837

Parameter	Units	5098247006 Result	MS	MSD	MS Result	MS	MSD	% Rec Limits	RPD RPD	Max Qual
			Spike Conc.	Spike Conc.		% Rec	% Rec			
1,2-Dibromoethane (EDB)	ug/L	<0.036	.26	.26	0.24	0.19	91	71	60-140	25 20 N2,R1
4-Bromofluorobenzene (S)	%					84	77	50-150		

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

QC Batch:	MERP/5451	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	5098635002		

METHOD BLANK: 1105102 Matrix: Water

Associated Lab Samples: 5098635002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/06/14 10:46	

LABORATORY CONTROL SAMPLE: 1105103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105104 1105105

Parameter	Units	5098490010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	4.9	99	97	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105106 1105107

Parameter	Units	5098549002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	5.0	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

QC Batch:	MPRP/13513	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	5098635001, 5098635002, 5098635004		

METHOD BLANK: 1105040 Matrix: Water

Associated Lab Samples: 5098635001, 5098635002, 5098635004

Parameter	Units	Blank Result	Reporting		
			Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	06/10/14 09:46	
Barium	ug/L	ND	10.0	06/10/14 09:46	
Cadmium	ug/L	ND	2.0	06/10/14 09:46	
Chromium	ug/L	ND	10.0	06/10/14 09:46	
Lead	ug/L	ND	10.0	06/10/14 09:46	
Selenium	ug/L	ND	10.0	06/10/14 09:46	
Silver	ug/L	ND	10.0	06/10/14 09:46	

LABORATORY CONTROL SAMPLE: 1105041

Parameter	Units	Spike Conc.	LCS		% Rec		Qualifiers
			Result	% Rec	Limits		
Arsenic	ug/L	1000	981	98	80-120		
Barium	ug/L	1000	997	100	80-120		
Cadmium	ug/L	1000	955	96	80-120		
Chromium	ug/L	1000	967	97	80-120		
Lead	ug/L	1000	960	96	80-120		
Selenium	ug/L	1000	951	95	80-120		
Silver	ug/L	500	477	95	80-120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105042 1105043

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		5098569005	Spike Conc.	Spike Conc.	MS Result				RPD	RPD	Qual
Arsenic	ug/L	ND	1000	1000	988	998	99	100	75-125	1	20
Barium	ug/L	154	1000	1000	1120	1130	96	98	75-125	1	20
Cadmium	ug/L	ND	1000	1000	958	971	96	97	75-125	1	20
Chromium	ug/L	ND	1000	1000	943	954	94	95	75-125	1	20
Lead	ug/L	ND	1000	1000	937	946	94	94	75-125	1	20
Selenium	ug/L	ND	1000	1000	963	972	96	97	75-125	1	20
Silver	ug/L	500	500	483	490	97	98	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105044 1105045

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		5098590005	Spike Conc.	Spike Conc.	MS Result				RPD	RPD	Qual
Arsenic	ug/L	ND	1000	1000	1000	977	100	97	75-125	2	20
Barium	ug/L	120	1000	1000	1110	1090	99	97	75-125	2	20

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Parameter	Units	5098590005		MS Spike		MSD Spike		1105045				
		Result	Conc.	Conc.	Result	MSD	% Rec	MSD	% Rec	% Rec	Max	
											RPD	RPD
Cadmium	ug/L	ND	1000	1000	969	947	97	95	75-125	2	20	
Chromium	ug/L	ND	1000	1000	964	941	96	94	75-125	2	20	
Lead	ug/L	ND	1000	1000	947	926	95	92	75-125	2	20	
Selenium	ug/L	ND	1000	1000	960	940	96	94	75-125	2	20	
Silver	ug/L	ND	500	500	488	476	98	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

QC Batch:	MSV/65629	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5098635003		

METHOD BLANK: 1108416 Matrix: Water

Associated Lab Samples: 5098635003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/10/14 13:34	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/10/14 13:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/10/14 13:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/10/14 13:34	
1,1-Dichloroethane	ug/L	ND	5.0	06/10/14 13:34	
1,1-Dichloroethene	ug/L	ND	5.0	06/10/14 13:34	
1,1-Dichloropropene	ug/L	ND	5.0	06/10/14 13:34	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/10/14 13:34	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/10/14 13:34	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/14 13:34	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/10/14 13:34	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/10/14 13:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/10/14 13:34	
1,2-Dichloroethane	ug/L	ND	5.0	06/10/14 13:34	
1,2-Dichloropropane	ug/L	ND	5.0	06/10/14 13:34	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/10/14 13:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/10/14 13:34	
1,3-Dichloropropane	ug/L	ND	5.0	06/10/14 13:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/10/14 13:34	
2,2-Dichloropropane	ug/L	ND	5.0	06/10/14 13:34	
2-Butanone (MEK)	ug/L	ND	25.0	06/10/14 13:34	
2-Chlorotoluene	ug/L	ND	5.0	06/10/14 13:34	
2-Hexanone	ug/L	ND	25.0	06/10/14 13:34	
4-Chlorotoluene	ug/L	ND	5.0	06/10/14 13:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/10/14 13:34	
Acetone	ug/L	ND	100	06/10/14 13:34	
Acrolein	ug/L	ND	50.0	06/10/14 13:34	
Acrylonitrile	ug/L	ND	100	06/10/14 13:34	
Benzene	ug/L	ND	5.0	06/10/14 13:34	
Bromobenzene	ug/L	ND	5.0	06/10/14 13:34	
Bromochloromethane	ug/L	ND	5.0	06/10/14 13:34	
Bromodichloromethane	ug/L	ND	5.0	06/10/14 13:34	
Bromoform	ug/L	ND	5.0	06/10/14 13:34	
Bromomethane	ug/L	ND	5.0	06/10/14 13:34	
Carbon disulfide	ug/L	ND	10.0	06/10/14 13:34	
Carbon tetrachloride	ug/L	ND	5.0	06/10/14 13:34	
Chlorobenzene	ug/L	ND	5.0	06/10/14 13:34	
Chloroethane	ug/L	ND	5.0	06/10/14 13:34	
Chloroform	ug/L	ND	5.0	06/10/14 13:34	
Chloromethane	ug/L	ND	5.0	06/10/14 13:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/10/14 13:34	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

METHOD BLANK: 1108416

Matrix: Water

Associated Lab Samples: 5098635003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/10/14 13:34	
Dibromochloromethane	ug/L	ND	5.0	06/10/14 13:34	
Dibromomethane	ug/L	ND	5.0	06/10/14 13:34	
Dichlorodifluoromethane	ug/L	ND	5.0	06/10/14 13:34	
Ethyl methacrylate	ug/L	ND	100	06/10/14 13:34	
Ethylbenzene	ug/L	ND	5.0	06/10/14 13:34	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/10/14 13:34	
Iodomethane	ug/L	ND	10.0	06/10/14 13:34	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/10/14 13:34	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/10/14 13:34	
Methylene Chloride	ug/L	ND	5.0	06/10/14 13:34	
n-Butylbenzene	ug/L	ND	5.0	06/10/14 13:34	
n-Hexane	ug/L	ND	5.0	06/10/14 13:34	N2
n-Propylbenzene	ug/L	ND	5.0	06/10/14 13:34	
p-Isopropyltoluene	ug/L	ND	5.0	06/10/14 13:34	
sec-Butylbenzene	ug/L	ND	5.0	06/10/14 13:34	
Styrene	ug/L	ND	5.0	06/10/14 13:34	
tert-Butylbenzene	ug/L	ND	5.0	06/10/14 13:34	
Tetrachloroethene	ug/L	ND	5.0	06/10/14 13:34	
Toluene	ug/L	ND	5.0	06/10/14 13:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/10/14 13:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/10/14 13:34	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/10/14 13:34	
Trichloroethene	ug/L	ND	5.0	06/10/14 13:34	
Trichlorofluoromethane	ug/L	ND	5.0	06/10/14 13:34	
Vinyl acetate	ug/L	ND	50.0	06/10/14 13:34	
Vinyl chloride	ug/L	ND	2.0	06/10/14 13:34	
Xylene (Total)	ug/L	ND	10.0	06/10/14 13:34	
4-Bromofluorobenzene (S)	%.	90	80-114	06/10/14 13:34	
Dibromofluoromethane (S)	%.	92	79-116	06/10/14 13:34	
Toluene-d8 (S)	%.	102	81-110	06/10/14 13:34	

LABORATORY CONTROL SAMPLE: 1108417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.9	110	61-135	
1,1,1-Trichloroethane	ug/L	50	55.2	110	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	59.3	119	66-126	
1,1,2-Trichloroethane	ug/L	50	45.0	90	77-130	
1,1-Dichloroethane	ug/L	50	47.9	96	75-130	
1,1-Dichloroethene	ug/L	50	49.2	98	68-127	
1,1-Dichloropropene	ug/L	50	50.7	101	78-130	
1,2,3-Trichlorobenzene	ug/L	50	53.0	106	70-130	
1,2,3-Trichloropropane	ug/L	50	54.7	109	58-142	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

LABORATORY CONTROL SAMPLE: 1108417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	45.9	92	68-131	
1,2,4-Trimethylbenzene	ug/L	50	54.0	108	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	76-125	
1,2-Dichlorobenzene	ug/L	50	45.3	91	75-123	
1,2-Dichloroethane	ug/L	50	44.2	88	75-128	
1,2-Dichloropropane	ug/L	50	46.9	94	74-121	
1,3,5-Trimethylbenzene	ug/L	50	52.4	105	70-126	
1,3-Dichlorobenzene	ug/L	50	46.0	92	74-122	
1,3-Dichloropropane	ug/L	50	47.4	95	74-123	
1,4-Dichlorobenzene	ug/L	50	47.2	94	76-120	
2,2-Dichloropropane	ug/L	50	54.7	109	50-137	
2-Butanone (MEK)	ug/L	250	244	97	58-139	
2-Chlorotoluene	ug/L	50	57.1	114	74-122	
2-Hexanone	ug/L	250	273	109	54-140	
4-Chlorotoluene	ug/L	50	50.0	100	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	264	106	58-138	
Acetone	ug/L	250	243	97	49-150	
Acrolein	ug/L	1000	1230	123	41-200	
Acrylonitrile	ug/L	1000	1200	120	63-137	
Benzene	ug/L	50	49.2	98	74-122	
Bromobenzene	ug/L	50	50.6	101	72-127	
Bromochloromethane	ug/L	50	44.2	88	63-132	
Bromodichloromethane	ug/L	50	52.7	105	62-136	
Bromoform	ug/L	50	53.9	108	44-134	
Bromomethane	ug/L	50	59.5	119	22-181	
Carbon disulfide	ug/L	100	112	112	59-132	
Carbon tetrachloride	ug/L	50	58.0	116	56-137	
Chlorobenzene	ug/L	50	49.0	98	78-123	
Chloroethane	ug/L	50	57.7	115	60-144	
Chloroform	ug/L	50	45.5	91	78-126	
Chloromethane	ug/L	50	52.5	105	42-134	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	75-122	
cis-1,3-Dichloropropene	ug/L	50	60.0	120	64-126	
Dibromochloromethane	ug/L	50	55.0	110	58-128	
Dibromomethane	ug/L	50	44.7	89	73-125	
Dichlorodifluoromethane	ug/L	50	71.6	143	35-181	
Ethyl methacrylate	ug/L	200	225	112	69-133	
Ethylbenzene	ug/L	50	51.8	104	66-133	
Hexachloro-1,3-butadiene	ug/L	50	54.2	108	59-145	
Iodomethane	ug/L	100	110	110	21-170	
Isopropylbenzene (Cumene)	ug/L	50	58.5	117	69-124	
Methyl-tert-butyl ether	ug/L	100	91.4	91	69-122	
Methylene Chloride	ug/L	50	52.3	105	68-132	
n-Butylbenzene	ug/L	50	54.9	110	70-126	
n-Hexane	ug/L	50	53.7	107	51-125 N2	
n-Propylbenzene	ug/L	50	53.4	107	71-122	
p-Isopropyltoluene	ug/L	50	56.4	113	72-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

LABORATORY CONTROL SAMPLE: 1108417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	54.7	109	70-128	
Styrene	ug/L	50	57.1	114	74-126	
tert-Butylbenzene	ug/L	50	46.7	93	51-118	
Tetrachloroethene	ug/L	50	46.0	92	69-130	
Toluene	ug/L	50	47.0	94	72-122	
trans-1,2-Dichloroethene	ug/L	50	61.3	123	72-124	
trans-1,3-Dichloropropene	ug/L	50	47.7	95	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	209	105	56-133	
Trichloroethene	ug/L	50	46.6	93	76-126	
Trichlorofluoromethane	ug/L	50	62.9	126	76-149	
Vinyl acetate	ug/L	200	237	119	45-151	
Vinyl chloride	ug/L	50	58.4	117	59-126	
Xylene (Total)	ug/L	150	168	112	70-124	
4-Bromofluorobenzene (S)	%.			105	80-114	
Dibromofluoromethane (S)	%.			99	79-116	
Toluene-d8 (S)	%.			103	81-110	

MATRIX SPIKE SAMPLE: 1108418

Parameter	Units	5098555001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	38.7	77	50-132	
1,1,1-Trichloroethane	ug/L	ND	50	42.6	83	60-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	40.7	81	55-128	
1,1,2-Trichloroethane	ug/L	ND	50	34.4	69	61-139	
1,1-Dichloroethane	ug/L	ND	50	39.1	75	57-147	
1,1-Dichloroethene	ug/L	ND	50	40.5	80	55-145	
1,1-Dichloropropene	ug/L	ND	50	40.0	80	55-147	
1,2,3-Trichlorobenzene	ug/L	ND	50	33.0	66	31-141	
1,2,3-Trichloropropane	ug/L	ND	50	38.0	76	58-133	
1,2,4-Trichlorobenzene	ug/L	ND	50	29.1	58	25-143	
1,2,4-Trimethylbenzene	ug/L	ND	50	37.6	74	18-149	
1,2-Dibromoethane (EDB)	ug/L	ND	50	36.4	73	63-129	
1,2-Dichlorobenzene	ug/L	ND	50	30.1	60	38-136	
1,2-Dichloroethane	ug/L	ND	50	33.0	66	62-138	
1,2-Dichloropropane	ug/L	ND	50	37.1	74	59-130	
1,3,5-Trimethylbenzene	ug/L	ND	50	37.4	74	20-147	
1,3-Dichlorobenzene	ug/L	ND	50	30.1	60	28-141	
1,3-Dichloropropane	ug/L	ND	50	34.8	70	62-127	
1,4-Dichlorobenzene	ug/L	ND	50	31.3	63	30-139	
2,2-Dichloropropane	ug/L	ND	50	34.9	70	37-139	
2-Butanone (MEK)	ug/L	ND	250	161	64	37-156	
2-Chlorotoluene	ug/L	ND	50	38.9	78	27-142	
2-Hexanone	ug/L	ND	250	174	70	44-143	
4-Chlorotoluene	ug/L	ND	50	33.7	67	27-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	171	68	46-144	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

MATRIX SPIKE SAMPLE:	1108418						
Parameter	Units	5098555001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	ND	250	173	69	39-156	
Acrolein	ug/L	ND	1000	723	72	33-200	
Acrylonitrile	ug/L	ND	1000	951	95	48-149	
Benzene	ug/L	ND	50	40.2	80	62-129	
Bromobenzene	ug/L	ND	50	35.4	71	39-140	
Bromoform	ug/L	ND	50	32.4	65	49-142	
Bromochloromethane	ug/L	ND	50	38.7	77	50-142	
Bromodichloromethane	ug/L	ND	50	35.9	72	36-125	
Bromoform	ug/L	ND	50	47.1	94	13-179	
Bromomethane	ug/L	ND	100	89.6	90	45-142	
Carbon disulfide	ug/L	ND	50	41.9	84	46-142	
Carbon tetrachloride	ug/L	ND	50	35.7	71	49-136	
Chlorobenzene	ug/L	ND	50	49.2	98	47-160	
Chloroethane	ug/L	ND	50	35.5	71	54-150	
Chloroform	ug/L	ND	50	42.8	86	30-148	
Chloromethane	ug/L	ND	10	48.7	77	60-135	
cis-1,2-Dichloroethene	ug/L	ND	50	41.8	84	52-123	
cis-1,3-Dichloropropene	ug/L	ND	50	38.5	77	48-125	
Dibromochloromethane	ug/L	ND	50	33.7	67	59-134	
Dibromomethane	ug/L	ND	50	51.0	102	24-197	
Dichlorodifluoromethane	ug/L	ND	200	166	83	55-139	
Ethyl methacrylate	ug/L	ND	50	39.0	77	28-153	
Ethylbenzene	ug/L	ND	50	36.6	73	10-176	
Hexachloro-1,3-butadiene	ug/L	ND	100	69.9	70	17-157	
Iodomethane	ug/L	ND	50	43.1	86	18-152	
Isopropylbenzene (Cumene)	ug/L	ND	100	70.1	70	63-130	
Methyl-tert-butyl ether	ug/L	ND	50	39.9	80	45-156	
Methylene Chloride	ug/L	ND	50	33.8	68	10-161	
n-Butylbenzene	ug/L	ND	50	35.4	71	33-144 N2	
n-Hexane	ug/L	ND	50	36.6	73	16-150	
n-Propylbenzene	ug/L	ND	50	38.0	76	10-163	
p-Isopropyltoluene	ug/L	ND	50	38.1	76	10-160	
sec-Butylbenzene	ug/L	ND	50	41.2	82	36-139	
Styrene	ug/L	ND	50	33.5	67	12-134	
tert-Butylbenzene	ug/L	ND	50	33.9	64	33-151	
Tetrachloroethene	ug/L	ND	50	36.1	72	50-132	
Toluene	ug/L	ND	50	53.1	106	40-153	
trans-1,2-Dichloroethene	ug/L	ND	50	31.4	63	48-122	
trans-1,3-Dichloropropene	ug/L	ND	200	127	63	32-139	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	39.1	74	50-143	
Trichloroethene	ug/L	ND	50	51.5	103	60-175	
Trichlorofluoromethane	ug/L	ND	200	178	89	17-142	
Vinyl acetate	ug/L	ND	50	50.1	98	44-145	
Vinyl chloride	ug/L	ND	150	124	83	29-145	
Xylene (Total)	ug/L				102	80-114	
4-Bromofluorobenzene (S)	%.				100	79-116	
Dibromofluoromethane (S)	%.				99	81-110	
Toluene-d8 (S)	%.						

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

SAMPLE DUPLICATE: 1108419

Parameter	Units	5098555002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

SAMPLE DUPLICATE: 1108419

Parameter	Units	5098555002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	ND	ND		20	
n-Hexane	ug/L	ND	ND		20	N2
n-Propylbenzene	ug/L	ND	ND		20	
p-Isopropyltoluene	ug/L	ND	ND		20	
sec-Butylbenzene	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	128	134	5	20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	85	88	3		
Dibromofluoromethane (S)	%.	94	101	6		
Toluene-d8 (S)	%.	97	100	2		

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

QC Batch:	MSV/65631	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5098635001, 5098635002, 5098635004		

METHOD BLANK: 1108425 Matrix: Water

Associated Lab Samples: 5098635001, 5098635002, 5098635004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/11/14 01:27	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/11/14 01:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/11/14 01:27	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/11/14 01:27	
1,1-Dichloroethane	ug/L	ND	5.0	06/11/14 01:27	
1,1-Dichloroethene	ug/L	ND	5.0	06/11/14 01:27	
1,1-Dichloropropene	ug/L	ND	5.0	06/11/14 01:27	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/11/14 01:27	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/11/14 01:27	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/11/14 01:27	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/11/14 01:27	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/11/14 01:27	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/11/14 01:27	
1,2-Dichloroethane	ug/L	ND	5.0	06/11/14 01:27	
1,2-Dichloropropane	ug/L	ND	5.0	06/11/14 01:27	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/11/14 01:27	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/11/14 01:27	
1,3-Dichloropropane	ug/L	ND	5.0	06/11/14 01:27	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/11/14 01:27	
2,2-Dichloropropane	ug/L	ND	5.0	06/11/14 01:27	
2-Butanone (MEK)	ug/L	ND	25.0	06/11/14 01:27	
2-Chlorotoluene	ug/L	ND	5.0	06/11/14 01:27	
2-Hexanone	ug/L	ND	25.0	06/11/14 01:27	
4-Chlorotoluene	ug/L	ND	5.0	06/11/14 01:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/11/14 01:27	
Acetone	ug/L	ND	100	06/11/14 01:27	
Acrolein	ug/L	ND	50.0	06/11/14 01:27	
Acrylonitrile	ug/L	ND	100	06/11/14 01:27	
Benzene	ug/L	ND	5.0	06/11/14 01:27	
Bromobenzene	ug/L	ND	5.0	06/11/14 01:27	
Bromochloromethane	ug/L	ND	5.0	06/11/14 01:27	
Bromodichloromethane	ug/L	ND	5.0	06/11/14 01:27	
Bromoform	ug/L	ND	5.0	06/11/14 01:27	
Bromomethane	ug/L	ND	5.0	06/11/14 01:27	
Carbon disulfide	ug/L	ND	10.0	06/11/14 01:27	
Carbon tetrachloride	ug/L	ND	5.0	06/11/14 01:27	
Chlorobenzene	ug/L	ND	5.0	06/11/14 01:27	
Chloroethane	ug/L	ND	5.0	06/11/14 01:27	
Chloroform	ug/L	ND	5.0	06/11/14 01:27	
Chloromethane	ug/L	2.8J	5.0	06/11/14 01:27	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/11/14 01:27	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

METHOD BLANK: 1108425

Matrix: Water

Associated Lab Samples: 5098635001, 5098635002, 5098635004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/11/14 01:27	
Dibromochloromethane	ug/L	ND	5.0	06/11/14 01:27	
Dibromomethane	ug/L	ND	5.0	06/11/14 01:27	
Dichlorodifluoromethane	ug/L	ND	5.0	06/11/14 01:27	
Ethyl methacrylate	ug/L	ND	100	06/11/14 01:27	
Ethylbenzene	ug/L	ND	5.0	06/11/14 01:27	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/11/14 01:27	
Iodomethane	ug/L	ND	10.0	06/11/14 01:27	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/11/14 01:27	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/11/14 01:27	
Methylene Chloride	ug/L	ND	5.0	06/11/14 01:27	
n-Butylbenzene	ug/L	ND	5.0	06/11/14 01:27	
n-Hexane	ug/L	ND	5.0	06/11/14 01:27	N2
n-Propylbenzene	ug/L	ND	5.0	06/11/14 01:27	
p-Isopropyltoluene	ug/L	ND	5.0	06/11/14 01:27	
sec-Butylbenzene	ug/L	ND	5.0	06/11/14 01:27	
Styrene	ug/L	ND	5.0	06/11/14 01:27	
tert-Butylbenzene	ug/L	ND	5.0	06/11/14 01:27	
Tetrachloroethene	ug/L	ND	5.0	06/11/14 01:27	
Toluene	ug/L	ND	5.0	06/11/14 01:27	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/11/14 01:27	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/11/14 01:27	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/11/14 01:27	
Trichloroethene	ug/L	ND	5.0	06/11/14 01:27	
Trichlorofluoromethane	ug/L	ND	5.0	06/11/14 01:27	
Vinyl acetate	ug/L	ND	50.0	06/11/14 01:27	
Vinyl chloride	ug/L	ND	2.0	06/11/14 01:27	
Xylene (Total)	ug/L	ND	10.0	06/11/14 01:27	
4-Bromofluorobenzene (S)	%.	89	80-114	06/11/14 01:27	
Dibromofluoromethane (S)	%.	89	79-116	06/11/14 01:27	
Toluene-d8 (S)	%.	99	81-110	06/11/14 01:27	

LABORATORY CONTROL SAMPLE: 1108426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.8	106	61-135	
1,1,1-Trichloroethane	ug/L	50	54.7	109	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	56.0	112	66-126	
1,1,2-Trichloroethane	ug/L	50	45.0	90	77-130	
1,1-Dichloroethane	ug/L	50	57.9	116	75-130	
1,1-Dichloroethene	ug/L	50	51.3	103	68-127	
1,1-Dichloropropene	ug/L	50	52.1	104	78-130	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	70-130	
1,2,3-Trichloropropane	ug/L	50	53.6	107	58-142	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

LABORATORY CONTROL SAMPLE: 1108426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	68-131	
1,2,4-Trimethylbenzene	ug/L	50	52.5	105	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	48.0	96	76-125	
1,2-Dichlorobenzene	ug/L	50	44.2	88	75-123	
1,2-Dichloroethane	ug/L	50	43.4	87	75-128	
1,2-Dichloropropane	ug/L	50	48.3	97	74-121	
1,3,5-Trimethylbenzene	ug/L	50	51.1	102	70-126	
1,3-Dichlorobenzene	ug/L	50	45.1	90	74-122	
1,3-Dichloropropane	ug/L	50	46.2	92	74-123	
1,4-Dichlorobenzene	ug/L	50	45.5	91	76-120	
2,2-Dichloropropane	ug/L	50	46.9	94	50-137	
2-Butanone (MEK)	ug/L	250	221	89	58-139	
2-Chlorotoluene	ug/L	50	55.5	111	74-122	
2-Hexanone	ug/L	250	238	95	54-140	
4-Chlorotoluene	ug/L	50	46.9	94	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	230	92	58-138	
Acetone	ug/L	250	229	92	49-150	
Acrolein	ug/L	1000	1190	119	41-200	
Acrylonitrile	ug/L	1000	1310	131	63-137	
Benzene	ug/L	50	51.2	102	74-122	
Bromobenzene	ug/L	50	48.5	97	72-127	
Bromochloromethane	ug/L	50	41.4	83	63-132	
Bromodichloromethane	ug/L	50	52.5	105	62-136	
Bromoform	ug/L	50	52.2	104	44-134	
Bromomethane	ug/L	50	68.1	136	22-181	
Carbon disulfide	ug/L	100	121	121	59-132	
Carbon tetrachloride	ug/L	50	56.7	113	56-137	
Chlorobenzene	ug/L	50	48.1	96	78-123	
Chloroethane	ug/L	50	63.2	126	60-144	
Chloroform	ug/L	50	46.0	92	78-126	
Chloromethane	ug/L	50	56.8	114	42-134	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	75-122	
cis-1,3-Dichloropropene	ug/L	50	56.8	114	64-126	
Dibromochloromethane	ug/L	50	53.2	106	58-128	
Dibromomethane	ug/L	50	46.1	92	73-125	
Dichlorodifluoromethane	ug/L	50	78.3	157	35-181	
Ethyl methacrylate	ug/L	200	220	110	69-133	
Ethylbenzene	ug/L	50	52.1	104	66-133	
Hexachloro-1,3-butadiene	ug/L	50	51.8	104	59-145	
Iodomethane	ug/L	100	119	119	21-170	
Isopropylbenzene (Cumene)	ug/L	50	57.8	116	69-124	
Methyl-tert-butyl ether	ug/L	100	95.4	95	69-122	
Methylene Chloride	ug/L	50	49.4	99	68-132	
n-Butylbenzene	ug/L	50	51.0	102	70-126	
n-Hexane	ug/L	50	50.8	102	51-125 N2	
n-Propylbenzene	ug/L	50	50.6	101	71-122	
p-Isopropyltoluene	ug/L	50	53.3	107	72-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

LABORATORY CONTROL SAMPLE: 1108426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	52.6	105	70-128	
Styrene	ug/L	50	56.2	112	74-126	
tert-Butylbenzene	ug/L	50	39.5	79	51-118	
Tetrachloroethene	ug/L	50	44.5	89	69-130	
Toluene	ug/L	50	45.7	91	72-122	
trans-1,2-Dichloroethene	ug/L	50	64.7	129	72-124 L3	
trans-1,3-Dichloropropene	ug/L	50	44.8	90	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	178	89	56-133	
Trichloroethene	ug/L	50	48.1	96	76-126	
Trichlorofluoromethane	ug/L	50	65.1	130	76-149	
Vinyl acetate	ug/L	200	269	134	45-151	
Vinyl chloride	ug/L	50	63.4	127	59-126 L3	
Xylene (Total)	ug/L	150	167	111	70-124	
4-Bromofluorobenzene (S)	%.			102	80-114	
Dibromofluoromethane (S)	%.			101	79-116	
Toluene-d8 (S)	%.			101	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1108427 1108428

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	RPD	Max Qual
		5098635001	Result	Conc.	Conc.	Result	% Rec	Result	% Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	43.4	50.2	87	100	50-132	15	20		
1,1,1-Trichloroethane	ug/L	ND	50	50	46.1	54.9	92	110	60-138	17	20		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.3	53.4	91	107	55-128	17	20		
1,1,2-Trichloroethane	ug/L	ND	50	50	37.5	42.1	75	84	61-139	12	20		
1,1-Dichloroethane	ug/L	ND	50	50	42.2	50.3	84	101	57-147	17	20		
1,1-Dichloroethene	ug/L	ND	50	50	46.1	50.8	92	102	55-145	10	20		
1,1-Dichloropropene	ug/L	ND	50	50	45.1	52.0	90	104	55-147	14	20		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	37.7	47.7	71	91	31-141	24	20	R1	
1,2,3-Trichloropropane	ug/L	ND	50	50	41.7	48.4	83	97	58-133	15	20		
1,2,4-Trichlorobenzene	ug/L	5.1	50	50	34.4	41.8	59	74	25-143	19	20		
1,2,4-Trimethylbenzene	ug/L	ND	50	50	41.9	50.5	82	99	18-149	19	20		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	39.1	44.9	78	90	63-129	14	20		
1,2-Dichlorobenzene	ug/L	ND	50	50	35.5	42.0	70	83	38-136	17	20		
1,2-Dichloroethane	ug/L	ND	50	50	36.0	42.0	72	84	62-138	15	20		
1,2-Dichloropropane	ug/L	ND	50	50	39.2	45.0	78	90	59-130	14	20		
1,3,5-Trimethylbenzene	ug/L	ND	50	50	41.6	48.9	82	97	20-147	16	20		
1,3-Dichlorobenzene	ug/L	ND	50	50	36.0	42.9	72	86	28-141	17	20		
1,3-Dichloropropane	ug/L	ND	50	50	37.8	43.3	76	87	62-127	14	20		
1,4-Dichlorobenzene	ug/L	ND	50	50	36.9	43.5	74	87	30-139	16	20		
2,2-Dichloropropane	ug/L	ND	50	50	38.2	44.0	76	88	37-139	14	20		
2-Butanone (MEK)	ug/L	ND	250	250	188	200	75	80	37-156	6	20		
2-Chlorotoluene	ug/L	ND	50	50	45.3	52.8	91	106	27-142	15	20		
2-Hexanone	ug/L	ND	250	250	197	211	78	84	44-143	7	20		
4-Chlorotoluene	ug/L	ND	50	50	38.6	45.7	77	91	27-144	17	20		

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

Parameter	Units	5098635001		MS		MSD		1108428				
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	192	207	77	83	46-144	8	20	
Acetone	ug/L	ND	250	250	201	204	80	82	39-156	2	20	
Acrolein	ug/L	ND	1000	1000	950	992	93	97	33-200	4	20	
Acrylonitrile	ug/L	ND	1000	1000	1040	1130	104	113	48-149	9	20	
Benzene	ug/L	ND	50	50	44.7	51.3	88	101	62-129	14	20	
Bromobenzene	ug/L	ND	50	50	39.5	45.8	79	91	39-140	15	20	
Bromoform	ug/L	ND	50	50	43.2	50.3	86	101	50-142	15	20	
Bromomethane	ug/L	ND	50	50	40.5	48.4	81	97	36-125	18	20	
Carbon disulfide	ug/L	ND	100	100	106	115	105	114	45-142	8	20	
Carbon tetrachloride	ug/L	ND	50	50	49.8	57.5	100	115	46-142	14	20	
Chlorobenzene	ug/L	ND	50	50	40.3	45.4	81	91	49-136	12	20	
Chloroethane	ug/L	ND	50	50	56.8	61.3	114	123	47-160	8	20	
Chloroform	ug/L	ND	50	50	39.5	45.4	77	89	54-150	14	20	
Chloromethane	ug/L	ND	50	50	51.9	56.2	104	112	30-148	8	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	42.1	48.6	84	97	60-135	14	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.4	52.3	91	105	52-123	14	20	
Dibromochloromethane	ug/L	ND	50	50	42.7	49.1	85	98	48-125	14	20	
Dibromomethane	ug/L	ND	50	50	37.2	42.8	74	86	59-134	14	20	
Dichlorodifluoromethane	ug/L	ND	50	50	68.4	78.9	137	158	24-197	14	20	
Ethyl methacrylate	ug/L	ND	200	200	180	200	90	100	55-139	11	20	
Ethylbenzene	ug/L	ND	50	50	43.9	49.1	86	97	28-153	11	20	
Hexachloro-1,3-butadiene	ug/L	2.6J	50	50	40.7	47.8	76	90	10-176	16	20	
Iodomethane	ug/L	ND	100	100	97.7	111	98	111	17-157	13	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	49.0	55.5	98	111	18-152	12	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	78.0	86.9	78	87	63-130	11	20	
Methylene Chloride	ug/L	ND	50	50	44.0	51.3	88	103	45-156	15	20	
n-Butylbenzene	ug/L	ND	50	50	41.0	48.8	79	95	10-161	17	20	
n-Hexane	ug/L	ND	50	50	42.6	55.6	85	111	33-144	27	20 N2,R1	
n-Propylbenzene	ug/L	ND	50	50	41.8	49.0	83	97	16-150	16	20	
p-Isopropyltoluene	ug/L	ND	50	50	43.4	51.7	86	103	10-163	18	20	
sec-Butylbenzene	ug/L	ND	50	50	43.4	50.8	86	101	10-160	16	20	
Styrene	ug/L	ND	50	50	47.0	52.1	93	104	36-139	10	20	
tert-Butylbenzene	ug/L	ND	50	50	37.3	44.0	75	88	12-134	17	20	
Tetrachloroethene	ug/L	ND	50	50	37.9	42.8	75	85	33-151	12	20	
Toluene	ug/L	4.0J	50	50	43.2	48.7	78	90	50-132	12	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	56.2	65.1	112	130	40-153	15	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	35.0	40.1	70	80	48-122	14	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	146	159	73	80	32-139	9	20	
Trichloroethene	ug/L	ND	50	50	41.1	47.5	82	95	50-143	14	20	
Trichlorofluoromethane	ug/L	ND	50	50	58.1	67.4	116	135	60-175	15	20	
Vinyl acetate	ug/L	ND	200	200	142	148	71	74	17-142	4	20	
Vinyl chloride	ug/L	ND	50	50	59.1	64.9	118	130	44-145	9	20	
Xylene (Total)	ug/L	ND	150	150	145	162	97	108	29-145	11	20	
4-Bromofluorobenzene (S)	%.						105	100	80-114			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1108427		1108428							
Parameter	Units	Result	MS Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Dibromofluoromethane (S)	%.						97		100	79-116		
Toluene-d8 (S)	%.						97	97	97	81-110		

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

QC Batch:	OEXT/36002	Analysis Method:	EPA 8270 by SIM LVE
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH LV by SIM MSSV
Associated Lab Samples:	5098635001, 5098635002, 5098635004		

METHOD BLANK: 1104366 Matrix: Water

Associated Lab Samples: 5098635001, 5098635002, 5098635004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	06/03/14 18:03	N2
2-Methylnaphthalene	ug/L	ND	1.0	06/03/14 18:03	
Acenaphthene	ug/L	ND	1.0	06/03/14 18:03	
Acenaphthylene	ug/L	ND	1.0	06/03/14 18:03	
Anthracene	ug/L	ND	0.10	06/03/14 18:03	
Benzo(a)anthracene	ug/L	ND	0.10	06/03/14 18:03	
Benzo(a)pyrene	ug/L	ND	0.10	06/03/14 18:03	
Benzo(b)fluoranthene	ug/L	ND	0.10	06/03/14 18:03	
Benzo(g,h,i)perylene	ug/L	ND	0.10	06/03/14 18:03	
Benzo(k)fluoranthene	ug/L	ND	0.10	06/03/14 18:03	
Chrysene	ug/L	ND	0.50	06/03/14 18:03	
Dibenz(a,h)anthracene	ug/L	ND	0.10	06/03/14 18:03	
Fluoranthene	ug/L	ND	1.0	06/03/14 18:03	
Fluorene	ug/L	ND	1.0	06/03/14 18:03	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	06/03/14 18:03	
Naphthalene	ug/L	ND	1.0	06/03/14 18:03	
Phenanthrene	ug/L	ND	1.0	06/03/14 18:03	
Pyrene	ug/L	ND	1.0	06/03/14 18:03	
2-Fluorobiphenyl (S)	%.	52	21-114	06/03/14 18:03	
p-Terphenyl-d14 (S)	%.	91	25-131	06/03/14 18:03	

LABORATORY CONTROL SAMPLE: 1104367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	6.8	68	29-112	N2
2-Methylnaphthalene	ug/L	10	5.8	58	29-110	
Acenaphthene	ug/L	10	6.3	63	39-117	
Acenaphthylene	ug/L	10	6.6	66	40-120	
Anthracene	ug/L	10	7.5	75	48-126	
Benzo(a)anthracene	ug/L	10	8.6	86	51-134	
Benzo(a)pyrene	ug/L	10	9.4	94	48-141	
Benzo(b)fluoranthene	ug/L	10	9.9	99	49-139	
Benzo(g,h,i)perylene	ug/L	10	8.1	81	44-134	
Benzo(k)fluoranthene	ug/L	10	8.9	89	48-140	
Chrysene	ug/L	10	9.1	91	53-136	
Dibenz(a,h)anthracene	ug/L	10	8.1	81	44-132	
Fluoranthene	ug/L	10	8.0	80	50-135	
Fluorene	ug/L	10	6.9	69	44-124	
Indeno(1,2,3-cd)pyrene	ug/L	10	8.1	81	45-132	
Naphthalene	ug/L	10	6.1	61	30-112	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

LABORATORY CONTROL SAMPLE: 1104367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	7.3	73	47-128	
Pyrene	ug/L	10	8.9	89	50-134	
2-Fluorobiphenyl (S)	%.			52	21-114	
p-Terphenyl-d14 (S)	%.			87	25-131	

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QUALITY CONTROL DATA

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

QC Batch:	WET/16081	Analysis Method:	EPA 7196
QC Batch Method:	EPA 7196	Analysis Description:	7196 Chromium, Hexavalent
Associated Lab Samples:	5098635002		

METHOD BLANK: 1104701 Matrix: Water

Associated Lab Samples: 5098635002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	ND	10.0	06/03/14 14:27	

LABORATORY CONTROL SAMPLE: 1104702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	500	544	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104703 1104704

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium, Hexavalent	ug/L	5098635001	500	531	546					3	20	

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QUALIFIERS

Project: Cabot Corp / 067021.00.003.006

Pace Project No.: 5098635

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

N2 The lab does not hold TNI accreditation for this parameter.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cabot Corp / 067021.00.003.006
Pace Project No.: 5098635

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098635001	SB1GW	EPA 8011	GCSV/12613	EPA 8011	GCSV/12630
5098635004	DUP01	EPA 8011	GCSV/12613	EPA 8011	GCSV/12630
5098635001	SB1GW	EPA 3010	MPRP/13513	EPA 6010	ICP/15731
5098635002	SB2GW	EPA 3010	MPRP/13513	EPA 6010	ICP/15731
5098635004	DUP01	EPA 3010	MPRP/13513	EPA 6010	ICP/15731
5098635002	SB2GW	EPA 7470	MERP/5451	EPA 7470	MERC/5960
5098635001	SB1GW	EPA 3510	OEXT/36002	EPA 8270 by SIM LVE	MSSV/15409
5098635002	SB2GW	EPA 3510	OEXT/36002	EPA 8270 by SIM LVE	MSSV/15409
5098635004	DUP01	EPA 3510	OEXT/36002	EPA 8270 by SIM LVE	MSSV/15409
5098635001	SB1GW	EPA 8260	MSV/65631		
5098635002	SB2GW	EPA 8260	MSV/65631		
5098635003	TRIP BLANK	EPA 8260	MSV/65629		
5098635004	DUP01	EPA 8260	MSV/65631		
5098635002	SB2GW	EPA 7196	WET/16081		
5098635002	SB2GW	Trivalent Chromium Calculation	WET/16141		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Pace Analytical

Client Name: Soil & Materials Eng. Project # S098635

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Date/Time 5035A kits placed in freezer

Packing Material: Bubble Wrap Bubble Bags None Other *bam*Thermometer Used *1 2 3 4 5 A B C D E*Type of Ice: *Wet* Blue None Samples on ice, cooling process has begunCooler Temperature *1.2°C*
(Corrected, if applicable)Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Comments: _____

Date and Initials of person examining contents: *Kee 6-3-14*

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. (Circle) <i>HNO3</i> <i>H2SO4</i> <input checked="" type="checkbox"/> <i>NaOH</i> <input type="checkbox"/> <i>HCl</i>
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: *Laura Welsh* Date/Time: *6/3*

Comments/ Resolution: _____

*SB16W + Alpha (Concr/ catb)
also att samples concr 17g, As, Ba, Cd, Cr, Sc, Pb*

Project Manager Review: *Mld*Date: *6/3/14*

CLIENT: Soil & Materials Eng

**COC PAGE 1 of 1
COC ID# 1687049**

Sample Container Count

Project # _____

Sample Line

Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP3S	BP3N	BP3U	AG3S	AG1H	BP3C	BP1U	SPST	pH <2	pH >12	Comments
1	6			2				1				1				✓	✓	
2	3			2				1								✓	✓	
3	3																	
4	6			2				1								✓	✓	
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Container Codes

DG9H	40mL HCl amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H ₂ SO ₄ plastic	DG9S	40mL H ₂ SO ₄ amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H ₂ SO ₄ amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO ₃ plastic	AG2N	500mL HNO ₃ amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H ₂ SO ₄ amber glass	BP2O	500mL NaOH plastic	JG FU	4oz unpreserved amber wide
BP2S	500mL H ₂ SO ₄ plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO ₃ plastic	AG3U	250mL unpreserved amber glass	Air Filter		VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio clear vial
BP3S	250mL H ₂ SO ₄ plastic	BG1S	1 liter H ₂ SO ₄ clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H ₂ SO ₄ glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H ₂ SO ₄ amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfite amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag